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*	*	*	* *	* *	* *	* Welcome to STN International * * * * * * * *
1	NEW	īS	1			Web Page for STN Seminar Schedule - N. America
1	NEW	IS	2	JAN	12	Match STN Content and Features to Your Information
						Needs, Quickly and Conveniently
1	NEW	IS	3	JAN	25	Annual Reload of MEDLINE database
1	NEW	IS	4	FEB	16	STN Express Maintenance Release, Version 8.4.2, Is
						Now Available for Download
1	NEW	IS	5	FEB	16	Derwent World Patents Index (DWPI) Revises Indexing
			_			of Author Abstracts
	MEM		7	FEB		New FASTA Display Formats Added to USGENE and PCTGEN INPADOCDB and INPAFAMDB Enriched with New Content
1	NEW	15	/	FEB	Τρ	and Features
,	NEW	70	8	FEB	16	INSPEC Adding Its Own IPC codes and Author's E-mail
	NEED IN	10	0	FED	10	Addresses
1	NEW	IS	9	APR	0.2	CAS Registry Number Crossover Limits Increased to
		~				500,000 in Key STN Databases
1	NEW	IS	10	APR	02	PATDPAFULL: Application and priority number formats
						enhanced
1	NEW	IS	11	APR	02	DWPI: New display format ALLSTR available
1	NEW	IS	12	APR	02	New Thesaurus Added to Derwent Databases for Smooth
						Sailing through U.S. Patent Codes
1	NEW	IS	13	APR	02	EMBASE Adds Unique Records from MEDLINE, Expanding
					0.0	Coverage back to 1948
1	NEW	15	14	APR	0 /	CA/CAplus CLASS Display Streamlined with Removal of
,	VIII V	10	15	APR	0.7	Pre-IPC 8 Data Fields 50,000 World Traditional Medicine (WTM) Patents Now
1	NEN	10	13	APR	0 /	Available in Caplus
7	MER.	IS	16	APR	0.7	MEDLINE Coverage Is Extended Back to 1947
•						Industrial develope to inconded back to 1911
1	NEW	IS	EXP	RESS	FEB	RUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,
						CURRENT DISCOVER FILE IS DATED 15 JANUARY 2010.
			HOU			N Operating Hours Plus Help Desk Availability
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specific topic.

FILE 'HOME' ENTERED AT 11:19:38 ON 10 MAY 2010

=> file caplus COST IN U.S. DOLLARS

SINCE FILE TOTAL. ENTRY SESSION 0.22 0.22

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 11:19:51 ON 10 MAY 2010 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 10 May 2010 VOL 152 ISS 20 FILE LAST UPDATED: 9 May 2010 (20100509/ED) REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

CAplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s disulfiram

L1

2293 DISULFIRAM 2 DISULFIRAMS 2293 DISULFIRAM

(DISULFIRAM OR DISULFIRAMS)

10 DISULPHIRAM 2300 DISULFIRAM

(DISULFIRAM OR DISULPHIRAM)

=> s disulfiram/cn

REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L3 3380 L2

=> s disulfram/cn REG1stRY INITIATED Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L5 0 L4

=> s curcumin

6749 CURCUMIN 75 CURCUMINS

L6 6756 CURCUMIN

(CURCUMIN OR CURCUMINS)

=> file registry

COST IN U.S. DOLLARS SINCE FILE ENTRY

TOTAL

18.32

SESSION

2.81

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 11:20:42 ON 10 MAY 2010 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 9 MAY 2010 HIGHEST RN 1221824-45-8 DICTIONARY FILE UPDATES: 9 MAY 2010 HIGHEST RN 1221824-45-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> s disulfiram/cn

L7 1 DISULFIRAM/CN

=> d 17

- L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN
- RN 97-77-8 REGISTRY
- ED Entered STN: 16 Nov 1984
- Thioperoxydicarbonic diamide ([(H2N)C(S)]2S2), N,N,N',N'-tetraethyl- (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN Disulfide, bis(diethylthiocarbamoyl) (8CI)
- OTHER NAMES:
- CN Abstensil
- CN Abstinil

```
CN
    Abstinyl
CN
    Accel TET
CN
    Accel TET-R
CN Akrochem TETD
CN Alcophobin
CN Antabus
CN Antabuse
CN
   Antadix
CN
   Antaethvl
CN
   Antalcol
CN
   Antetan
CN
   Antetil
CN
   Anticol
CN
    Antietanol
CN
    Antietil
CN
    Antikol
CM
    Antivitium
CN
    Aversan
CN
    Averzan
CN
    Bis(diethylthiocarbamoyl) disulfide
CN
    Bis (N, N-diethvlthiocarbamovl) disulfide
CN
    Contralin
CN
    Cronetal
CN
    Dicupral
CN
    Disulfiram
CN
    Ekagom DTET
CN
    Ekagom TEDS
CN
   Ekagom TETDS
CN Espenal
    Esperal
CN
CN
    Etabus
CN
    Ethyl Thiram
CN Ethyl Thiurad
CN Ethyl Tuads
CN Ethvl Tuex
CN Etiltox
CN
    Exhoran
CN Exhorran
CN
    Hoca
CN Krotenal
CN N,N,N',N'-Tetraethvlthiuram disulfide
CN Nocceler TED
CN
    Nocceler TET
CN
    Nocceler TET-G
CN
    Noxal
CN
    NSC 25953
CN
    Refusal
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
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DR
     11078-22-1, 155-01-1
MF
     C10 H20 N2 S4
     COM
LC
                  ADISNEWS, AGRICOLA, ANABSTR, AOUIRE, BEILSTEIN*, BIOSIS,
     STN Files:
       BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, GMELIN*,
       HSDB*, IFICDB, IFIPAT, IFIUDB, IMSDRUGNEWS, IMSPRODUCT, IMSRESEARCH,
       IPA, MEDLINE, MRCK*, MSDS-OHS, PROMT, PS, RTECS*, SPECINFO, TOXCENTER,
       USAN, USPAT2, USPATFULL, USPATOLD
         (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**, WHO
         (**Enter CHEMLIST File for up-to-date regulatory information)
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EtoN C S S C NEto
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
            3369 REFERENCES IN FILE CA (1907 TO DATE)
              72 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            3380 REFERENCES IN FILE CAPLUS (1907 TO DATE)
=> s curcumin/cn
1.8
             1 CURCUMIN/CN
=> d 18
1.8
     ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN
RN
     458-37-7 REGISTRY
ED
     Entered STN: 16 Nov 1984
CN
     1,6-Heptadiene-3,5-dione, 1,7-bis(4-hydroxy-3-methoxyphenyl)-, (1E,6E)-
     (CA INDEX NAME)
OTHER CA INDEX NAMES:
     1,6-Heptadiene-3,5-dione, 1,7-bis(4-hydroxy-3-methoxyphenyl)-, (E,E)-
CN
     (8CT)
CN
     Curcumin (6CI)
OTHER NAMES:
CN
    (1E,6E)-1,7-Bis(4-hydroxy-3-methoxypheny1)-1,6-heptadiene-3,5-dione
CN
     (E)-1,7-Bis(4-hydroxy-3-methoxyphenyl)-1,6-heptadiene-3,5-dione
CN
     (E,E)-1,7-Bis(4-hydroxy-3-methoxyphenyl)-1,6-heptadiene-3,5-dione
CN
    C Yellow 15
    C.I. 75300
CN
    C.I. Natural Yellow 3
CN
CN
    Curcuma
CN
     Curcumin I
CN
     Curcumine
CN
     Diferuloylmethane
CN
    E 100
    E 100 (dve)
CN
CN
    Haidr
CN
    Halad
CN
    Haldar
CN
    Halud
CN
     Indian Saffron
CN
    Jianghuangsu
CN
    Kacha Haldi
CN
    Merita Earth
CN
     Natural Yellow 3
CN
     NSC 32982
CN
     San-Ei Curcumine AL
     San-Ei Gen Curcumine AL
CN
CN
     Souchet
     Terra Merita
     trans, trans-Curcumin
     Turmeric
CN
     Turmeric (dve)
CN
     Turmeric yellow
CN
     Ukon
CN
    Ukon (dye)
CN
     Yellow Ginger
```

```
CN
     Yellow Root
```

- CN Yo-Kin
- STEREOSEARCH
- 15845-47-3, 73729-23-4, 79257-48-0, 91884-86-5, 33171-04-9 DR
- C21 H20 O6 ME
- COM
- LC ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, STN Files: BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IMSPRODUCT, IMSRESEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PIRA,

PROMT, PROUSDDR, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL, USPATOLD

(*File contains numerically searchable property data) Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5369 REFERENCES IN FILE CA (1907 TO DATE)

237 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

5428 REFERENCES IN FILE CAPLUS (1907 TO DATE)

```
=> s BSO/cn
L9
             1 BSO/CN
```

=> d 19

- L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN
- RN 12377-72-9 REGISTRY
- ED Entered STN: 16 Nov 1984
- Bismuth oxide silicate (Bil2016(SiO4)) (CA INDEX NAME)
- OTHER CA INDEX NAMES:
- CN Bismuth silicate (Bi12Si020) (7CI)

OTHER NAMES:

- CN Bismuth oxide silicate
- Bismuth oxide silicate (Bi12SiO20)
- Bismuth silicon oxide (6Bi203.Si02)
- CN Bismuth silicon oxide (Bi12Si020)
- CN BSO
- CN Silicosillenite
- DR 849060-15-7, 66256-73-3, 225239-83-8, 398473-14-8
- MF Bi . 04 Si . 0
- AF Bi12 020 Si
- TIS
- STN Files: CA, CAPLUS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL

Other Sources: EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

Component	- 1	Ratio	- 1	Component
	- 1		- 1	Registry Number
	=+==		=+=	
0	- 1	16	- 1	17778-80-2
04Si	i	1	i	17181-37-2
Bi	- 1	12	- 1	7440-69-9

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1947 REFERENCES IN FILE CA (1907 TO DATE)
24 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1947 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s BCNU/cn L10 1 BCNU/CN => d 110 L10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN RN 154-93-8 REGISTRY Entered STN: 16 Nov 1984 Urea, N, N'-bis(2-chloroethyl)-N-nitroso- (CA INDEX NAME) OTHER CA INDEX NAMES: CN Urea, 1,3-bis(2-chloroethvl)-1-nitroso- (8CI) OTHER NAMES: CN 1,3-Bis(β-chloroethyl)-1-nitrosourea CN 1,3-Bis(2-chlorethyl)-1-nitrosourea CN 1,3-Bis(2-chloroethyl)-1-nitrosourea CN BCNU CN Becenun CN BiCNU CN Carmubris CN Carmustin CN Carmustine CN DTI 015 CN FDA 0345 CN Gliadel CN Gliadel Wafer CN N.N'-Bis(2-chloroethvl)-N-nitrosourea CN Nitrumon CN NSC 409962 CN SK 27702 CN SRT 1720

1159711-15-5, 1191292-23-5 C5 H9 C12 N3 O2

STN Files:

DR

MF C5 F CI COM LC STN

BIOTECHNO, CA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, IPA, MEDLINE, MRCK*, MSDS-OHS, PATDPASPC, PROMT, PROUSDDR, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL (Ffile contains numerically searchable property data)

ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS,

(*File contains numerically searchable property data Other Sources: EINECS**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)

C1CH2-CH2-NH-C-N-CH2-CH2C1

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3831 REFERENCES IN FILE CA (1907 TO DATE)

79 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

3851 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d his

(FILE 'HOME' ENTERED AT 11:19:38 ON 10 MAY 2010)

FILE 'CAPLUS' ENTERED AT 11:19:51 ON 10 MAY 2010 L1 2300 S DISULFIRAM

2300 S DISULFIRAM S DISULFIRAM/CN

FILE 'REGISTRY' ENTERED AT 11:20:06 ON 10 MAY 2010 L2 1 S DISULFIRAM/CN

FILE 'CAPLUS' ENTERED AT 11:20:06 ON 10 MAY 2010

L3 3380 S L2 S DISULFRAM/CN

FILE 'REGISTRY' ENTERED AT 11:20:23 ON 10 MAY 2010

L4 0 S DISULFRAM/CN

FILE 'CAPLUS' ENTERED AT 11:20:23 ON 10 MAY 2010

L5 0 S L4 L6 6756 S CURCUMIN

FILE 'REGISTRY' ENTERED AT 11:20:42 ON 10 MAY 2010

L7 1 S DISULFIRAM/CN L8 1 S CURCUMIN/CN

L9 1 S BSO/CN L10 1 S BCNU/CN

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 30.89 49.21

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FILE COVERS 1907 - 10 May 2010 VOL 152 ISS 20
FILE LAST UPDATED: 9 May 2010 (20100509/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010
CAplus now includes complete International Patent Classification (IPC)
reclassification data for the first quarter of 2010.
CAS Information Use Policies apply and are available at:
http://www.cas.org/legal/infopolicy.html
This file contains CAS Registry Numbers for easy and accurate
substance identification.
=> s 17
         3380 L7
=> s 18
L12
         5428 L8
=> s 19
L13
         1947 L9
=> s 110
T.14
         3851 T-10
=> s cancer or tumor or neoplasm
       454671 CANCER
        66711 CANCERS
        471046 CANCER
                (CANCER OR CANCERS)
        543550 TUMOR
        195321 TUMORS
       602918 TUMOR
                 (TUMOR OR TUMORS)
          4848 TUMOUR
         1830 TUMOURS
         6560 TUMOUR
                 (TUMOUR OR TUMOURS)
       603365 TUMOR
                 (TUMOR OR TUMOUR)
        593577 NEOPLASM
        38826 NEOPLASMS
        610989 NEOPLASM
                 (NEOPLASM OR NEOPLASMS)
L15
       1004074 CANCER OR TUMOR OR NEOPLASM
=> s 111 and 115
L16
         224 L11 AND L15
=> s 112 and 115
L17
         1654 L12 AND L15
=> s 113 and 115
1.18
          3 L13 AND L15
=> s 114 and 115
1.19
         2789 L14 AND L15
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=> s (116 or 117) and (118 or 119)

=> dup rem 120

PROCESSING COMPLETED FOR L20

34 DUP REM L20 (0 DUPLICATES REMOVED) L21

=> s 121 and ad<20030718

34 S L21 4690081 AD<20030718

(AD<20030718) L23 10 L22 AND AD<20030718

=> d 123 1-10 ibib abs

L23 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007;507420 CAPLUS 146 - 475663

DOCUMENT NUMBER:

TITLE: Compositions and methods for the treatment of

cancer INVENTOR(S): D'Andrea, Alan D.; Taniquchi, Toshiyasu

PATENT ASSIGNEE(S): Dana Farber Cancer Institute, USA SOURCE: U.S. Pat. Appl. Publ., 49pp., Cont.-in-part of U.S.

Ser. No. 46,346. CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	API	PLICATION NO.		DATE	
PRIOR	US 20070105130 US 20030093819 US 20030188326 US 20050255502 US 7459287 US 20090186355 KITY APPLN. INFO.:	A1 A1 A1 A1 A1 A1	20070510 20030515 20031002 20051117 20081202 20090723	US US US US US US US US	2006-441289 2001-998027 2002-165099 2005-46346 2008-315368 2000-245756P 2001-998027 2002-165099 2004-540380P 2005-46346	A2 P A2	20060524 20011102 20020606 20050128 20081201 20001103 20011102 20020606 20040130 20050128	
				US	2005-684136P	P	20050524	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT Disclosed herein are methods and compns. for the treatment of

cancer. In particular, the present invention discloses inhibitors of the Fanconi anemia pathway and methods using same. Such inhibitors are useful in inhibiting DNA damage repair and can be useful, for example, in the treatment of cancer. These agents can be combined with genotoxic antineoplastic agents. In one aspect, the invention provides a method of predicting whether a subject with a neoplastic disorder or disease will respond to a genotoxic antineoplastic agent. The method comprises obtaining a biol. sample from the subject, and determining degree of ubiquitination of the Fanconi anemia complementation group D2 (FANC D2) polypeptide within the biol. sample. In another aspect, a method of identifying an inhibitor of a non-Fanconi anemia DNA damage repair pathway is provided. The method comprises the following steps: (a) providing a control cell that is functional in the Fanconi anemia pathway; (b) providing a test cell that is isogenic to the test cell but is defective in the Fanconi anemia pathway; (c) contacting the test cell and the control cell with a test compound; and, (d) comparing the sensitivity of the test cell and said control cell to the test compound

L23 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:175576 CAPLUS

DOCUMENT NUMBER: 146:258964

TITLE: Method for augmentation of intraepithelial and systemic exposure of therapeutic agents having substrate activity for cytochrome p450 enzymes and

membrane efflux systems following vaginal and oral cavity administration

INVENTOR(S): Pauletti, Giovanni M.; Harrison, Donald C.; Desai,

Kishorkumar J.

PATENT ASSIGNEE(S): Histogenics Corp., USA

SOURCE: U.S. Pat. Appl. Publ., 24 pp., Cont.-in-part of U.S. Ser. No. 208,209.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 12 PATENT INFORMATION:

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CA	2622	746			A1		2007	0329		CA 2	006-	2622	746		2	0060	915	
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WO	2007	0355	15		A3		2007	0927										
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		MW,	MX,	MY,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RS,	
		RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	
		UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW								
	RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	
		IS,	IT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	
		CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,	
		GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,	
		KG,	KZ,	MD,	RU,	TJ,	TM,	AP,	EA,	EP,	OA							
EP	1948	103			A2		2008	0730		EP 2	006-	8249	76		2	0060	915	
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JP	2009	5088	69		T		2009	0305		JP 2	008-	5313	72		2	0060	915	
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												2082						
												7176						
										AU 1	998-	7697	6		A3 1	9980	610	
										WO 2	006-	US36	087		W 2	0060	915	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

The present invention relates to a method for augmentation of epithelial concentration and systemic exposure of therapeutic agents having a substrate affinity for cytochrome P 450 enzymes and membrane efflux transporter systems by using a vaginal or buccal drug delivery compns. and/or devices. Specifically, the invention relates to a method for augmentation of intraepithelial concentration and/or systemic bioavailability for delivery of anti-viral and/or anti-cancer therapeutic agents having a substrate affinity for cytochrome P 450 enzymes and membrane efflux

systems by using a vaginal or buccal drug delivery of these drugs into the systemic circulation by delivering such drug to a subject in need thereof vaginally or buccally in an especially formulated composition increasing the

bioavailability by providing means for increasing the drug solubility and

permeability through the vaginal or buccal mucosa. 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD OS.CITING REF COUNT: (7 CITINGS)

L23 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:606492 CAPLUS

DOCUMENT NUMBER: 145:76623

TITLE: Compounds and methods for thiol-containing compound

efflux and cancer treatment INVENTOR(S):

Day, Brian J.; Kachadourian, Remy

PATENT ASSIGNEE(S): National Jewish Medical and Research Center, USA SOURCE: U.S. Pat. Appl. Publ., 62 pp., Cont.-in-part of U.S.

Ser. No. 400,980. CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5 PATENT INFORMATION:

	TENT				KIN		DATE			APPL						ATE		
	2006							0622		US 2						0051		
	2006									US 2						0030		
																		<
	2006									AU 2						0061		
	2669							0628		CA 2						0061		
	2007									WO 2	006-	US60	941		2	0061	115	
	2007																	
WO	2007																	
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,	
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
		GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KN,	
		KP,	KR,	KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	
		MN.	MW.	MX.	MY.	MZ.	NA.	NG.	NI.	NO.	NZ.	OM.	PG.	PH.	PL.	PT.	RO.	
		RS.	RU.	sc.	SD.	SE.	SG.	SK,	SL.	SM.	sv.	SY.	TJ.	TM.	TN.	TR.	TT.	
								VN,										
	RW:							DE,				FI.	FR.	GB.	GR.	HU.	IE.	
								NL,										
								GQ,										
								SD,										
								AP,				00,	211,	2,	,	,	DI,	
FD	1954							0813				9/197	36		2	0061	115	
EF								DE,										
	Α:																IE,	
DD 7 0D 7 M					ьı,	LU,	Lv,	MC,									001	
PRIORIT	1 APP	LN.	TNFO	. :						US 2								
										US 2								
										US 2								
										WO 2	006-	JS60	941		W 2	0061	115	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 145:76623

cancer and/or another condition responsive to stimulation of

Methods for therapy of cystic fibrosis and other conditions such as cancer are provided. The methods comprise one or more agents capable of increasing thiol-containing compound transport via a transporter system (i.e.ABC transporters such as MDR-1 or MRP-2) in cells. Other embodiments include the use of agents to modulate transport of thiol-containing compds. within the cell. Therapeutic methods involve the administration of such agents to a patient afflicted with cystic fibrosis,

thiol-containing compound transport. OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L23 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER:

DOCUMENT NUMBER: 140:139468

TITLE:

Method of inhibiting ATF/CREB and cancer

2004:80356 CAPLUS cell growth and pharmaceutical compositions for same

INVENTOR(S): Kennedy, Thomas Preston

PATENT ASSIGNEE(S): Charlotte-Mecklenburg Hospital Authority, USA

SOURCE: U.S. Pat. Appl. Publ., 22 pp., Cont.-in-part of U.S. Ser. No. 392,122.

CODEN: USXXCO DOCUMENT TYPE: Patent

LANGUAGE:

English FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

	PATENT NO.					KIN		DATE				ICAT					ATE		
	US	2004	0019	102				2004	0129			003-					0030		<
		2003						2003	0403		US 1	999-	3921	22		11	9990	908	<
		6589				B2		2003											
		2525																	
		2005									WO 2	004-	US15	283		2	0040	513	
	WO	2005																	
		W:						ΑU,											
								DE,											
								ID,											
								LV,											
								PL,											
								TZ,											
		RW:						MW,											
								RU,											
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				TD,		- 0								- 0					
	EP	1622																	
		K:						ES,							NL,	SE,	MC,	PI,	
	- m.					RO,	CY,	TR,	BG,										
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		als.																	

metals. It was found that disulfiram disrupts transcription factor DNA binding by forming mixed disulfides with thiols within the DNA-binding region, and that this process is facilitated by metal ions. Disulfiram administered to melanoma cells in combination with copper (II) or zinc(II) decreased expression of cyclin A, reduced proliferation in vitro, and inhibited growth of melanoma cells. The combination of oral zinc gluconate and disulfiram at currently approved doses for alcoholism stabilized tumor growth in two of three patients with Stage IV metastatic melanoma, with 12 and 17 mo survivals, resp., to date, and

produced a >50% reduction in hepatic metastases in one individual. THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD OS.CITING REF COUNT:

(2 CITINGS)

ACCESSION NUMBER: 2002:778592 CAPLUS DOCUMENT NUMBER: 137:259666

TITLE: High-throughput stem cell assay of hematopoietic stem and progenitor cell proliferation

INVENTOR(S): Rich, Ivan N.

PATENT ASSIGNEE(S): Hemogenix, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 29 pp. CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 6 PATENT INFORMATION:

PA'			KIN	D	DATE			APPI	ICAT	ION :	NO.		1	DATE			
US	20020146	680		A1 B2		2002	1010		US 2	002-	5952	1			20020	129	
CA WO WO	2437084 20030049 20030049	95 95		A1 A2 A3		2003 2003 2003	0116 0116 0522		CA 2 WO 2	2002- 2002-	2437 US24	084 58			20020 20020	129 129	<
	W: AE, CO, GM, LS, PL,	AG, CR, HR, LT, PT, UG,	AL, CU, HU, LU, RO,	AM, CZ, ID, LV, RU,	DE IL MA SD	AU, DK, IN, MD, SE,	AZ, DM, IS, MG, SG,	BA, DZ, JP, MK, SI,	EC, KE, MN,	BG, EE, KG, MW,	ES, KP, MX,	BY, FI, KR, MZ,	BZ, GB, KZ, NO,	CA GD LC NZ	CH, GE, LK,	CN, GH, LR, PH,	
	RW: GH, KG, GR,	GM, KZ, IE,	KE, MD, IT,	LS, RU, LU,	MW TJ MC	MZ, TM, NL,	SD, AT, PT,	SL, BE, SE,	CH,	CY,	DE,	DK,	ES,	FI	FR,	GB,	
AU AU	20023356 20023356 1364197	GQ, 10 10		A1		2003	0121	٠,	AU 2	2002-	3356	10			20020	129	<
EP EP	1364197 1364197 R: AT,			B1		2010	0414										
US	IE, 464560 20040110	SI, 243	LT,	LV, T A1	FI	RO, 2010	MK, 0415 0610	CY,	AL,	TR 2002-	7703	72			20020	129	
US	7354730 20070148 7666615 20080160	668		A1 B2		2007 2010 2008	0628 0223			2006- 2008-					20061 20080		
US	7700354 20080160 7709258	564		B2 A1		2010 2008 2010	0420			2008-					20080		
US US	20080160 20090011	544 446		A1		2008	0703		US 2	-800	1350	21			20080	606	
PRIORII	Y APPLN.	INFO.	•						WO 2	2002-	US24	58		W :	20010 20020 20020	129	
									US 2 US 2 US 2	2002- 2003- 2007- 2008- 2008-	6450 9429 4981	77 66P 5		A2 : P : A2 :	20020 20030 20070 20080 20080	821 608 317	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

The present invention relates generally to high-throughput assay methods that determine the proliferative status of hematopoietic stem and progenitor cells. The present invention further relates to high-throughput assays for screening compds. that modulate the growth of hematopoietic stem and progenitor cells and for identifying subpopulations thereof that are suitable for transplantation. The assay of the present invention is

particularly useful for quality control and monitoring of the growth potential in the stem cell transplant setting and would provide improved control over the reconstitution phase of transplanted cells.

L23 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:555299 CAPLUS

DOCUMENT NUMBER: 137:103875

TITLE: Redox therapy for tumors

INVENTOR(S): Hoffman, Arnold

PATENT ASSIGNEE(S): Israel PCT Int. Appl., 36 pp. SOURCE:

CODEN: PIXXD2 DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

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PAT	TENT :				KIN	D	DATE			APPL	ICAT	ION	NO.		D	ATE		
	2002							0725		WO 2	002-	IL51			2	0020	118	<
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	RW:	UA, GH, KG, GR,	UG, GM, KZ, IE,	US, KE, MD, IT,	UZ, LS, RU, LU,	VN, MW, TJ, MC,	YU, MZ, TM, NL,	SG, ZA, SD, AT, PT,	ZM, SL, BE, SE,	ZW SZ, CH, TR,	TZ, CY, BF,	UG, DE, BJ,	ZM, DK, CF,	ZW, ES, CG,	AM, FI,	AZ,	BY, GB,	
	2002 2004 APP	2266 0018	50 987		A1		2002	SN, 0730 0129		AU 2	002- 003- 001-	2266 6213 1409	50 26 70		2 A 2	0020: 0030: 0010: 0020	718 118	<

AR A method for treating malignancies and/or otherwise controlling the growth and/or proliferative behavior and/or other biol. functions of a cell displaying malignant properties, through the control of the redox state or environment of the cell, preferably through the administration of a GSH-decreasing agent. THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

(1 CITINGS)

L23 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2001:618459 CAPLUS

DOCUMENT NUMBER: 135:190400

TITLE: Method of treating cancer using

dithiocarbamate derivatives INVENTOR(S): Kennedy, Thomas Preston

PATENT ASSIGNEE (S): Charlotte-Mecklenburg Hospital Authority, USA SOURCE:

U.S. Pat. Appl. Publ., 36 pp., Cont.-in-part of U.S.

Ser. No. 679,932. CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

OS.CITING REF COUNT:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20010016600	A1	20010823	US 2000-735205	20001212 <
US 6548540	B2	20030415		

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US 20030065026 A1 20030403 US 1999-392122 US 6589987 B2 20030708 US 6706759 B1 20040316 US 2000-679932 CA 2424761 A1 20020411 CA 2001-2424761 WO 2002028349 A2 20020411 WO 2001-US31142 WO 2002028349 A3 20020711
                                                                                              19990908 <--
                                                                                              20001005 <--
                                                                                              20011004 <--
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                   GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
                   LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
                   PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
                   US, UZ, VN, YU, ZA, ZW
             RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
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                   BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
       AU 2001096610
                                    A
                                            20020415 AU 2001-96610
20030723 EP 2001-977495
                                                                                              20011004 <--
       EP 1328267
                                    A2
                                                                                               20011004 <--
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                                   B1
                                          20081126
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TE, SI, LT, LV, FI, RO, MK, CY, AL, TR
JP 2004525079 T 20040819 JP 2002-531975
JP 4268801 B2 20090527
AU 2001296610 B2 20060629 AU 2001-996610
AT 415158 T 20081215 AT 2001-977495
US 20030229064 A1 20031211 US 2003-378206
US 20050096304 A1 20050505 US 2004-922728
US 20070232692 A1 20071004 US 2007-671823
PRIORITY APPLN. INFO:: US 1998-99390P
                                                                                               20011004 <--
                                                                                               20011004 <--
                                                                                               20011004 <--
                                                                                               20030303 <--
                                                                                       20040820
20070206
P 19980908
A2 19990908
A2 20001005
                                                               US 1999-392122
US 2000-679932
                                                               US 2000-735205
                                                                                          A 20001212
                                                               WO 2001-US31142
                                                                                          W 20011004
                                                               US 2003-378206 A2 20030303
```

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 135:190400

AB Dithiocarbamate, particularly tetraethylthiuram disulfide, and thiocarbamate anions strongly inhibit the growth of cancer cells of a variety of cell types. Such inhibitory effect is enhanced by heavy metal ions such as copper ions, cytokines and ceruloplasmin. A method is presented for using tetraethylthiuram disulfide to reduce tumor growth, and to potentiate the effect of other anticancer agents. Chelates of disulfiram with a number of metal ions, including Cu2+, Zn2+, Ag1+, or Au3+ were synthesized. During generation of disulfiram-metal complexes, chelation of metal ions from the aqueous phase was suggested by a color change in the disulfiram-containing chloroform phase (from pale yellow to brilliant golden orange with complexation of gold ions). All metal complexes showed increased antiproliferative activity compared to disulfiram, but the most active compound was formed by the complex of gold with disulfiram, which was antiproliferative at nM concns.

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

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L23 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2001:338762 CAPLUS
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134:362292 DOCUMENT NUMBER:

TITLE: Methods of determining individual hypersensitivity to a pharmaceutical agent from gene expression profile
INVENTOR(S): Farr, Spencer
PATENT ASSIGNEE(S): Phase-1 Molecular Toxicology, USA
SOURCE: PCT Int. Appl., 222 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent

PATENT INFORMATION:

PAT	PATENT NO.				KIN	D	DATE			APPL	ICAT	ION	NO.		D	ATE		
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WO	2001	0329	28		A2		2001	0510		WO 2	000-	US30	474		2	0001	103 -	<
WO	2001	0329	28		A3		2002	0725										
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		CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	
		HU.	ID.	IL.	IN.	IS.	JP,	KE.	KG.	KP.	KR.	KZ.	LC.	LK.	LR.	LS.	LT.	
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		SD,	SE.	SG.	SI.	SK.	SL.	TJ.	TM.	TR.	TT.	TZ.	UA.	UG.	US,	UZ,	VN.	
		YU.	ZA.	ZW														
	RW:	GH.	GM.	KE.	LS.	MW.	MZ,	SD.	SL.	SZ.	TZ.	UG.	ZW.	AT,	BE.	CH.	CY.	
							GB,											
							GA,									,	,	
PRIORITY	APP				,	,	,	J.,		US 1					P 1	9991	105	
										US 2	000-	1965	71P		P 2	0000	411	

AB The invention discloses methods, gene databases, gene arrays, protein arrays, and devices that may be used to determine the hypersensitivity of individuals to a given agent, such as drug or other chemical, in order to prevent toxic side effects. In one embodiment, methods of identifying hypersensitivity in a subject by obtaining a gene expression profile of multiple genes associated with hypersensitivity of the subject suspected to be hypersensitive, and identifying in the gene expression profile of the subject a pattern of gene expression of the genes associated with hypersensitivity are disclosed. The gene expression profile of the subject may be compared with the gene expression profile of a normal individual and a hypersensitive individual. The gene expression profile of the subject that is obtained may comprise a profile of levels of mRNA or cDNA. The gene expression profile may be obtained by using an array of nucleic acid probes for the plurality of genes associated with hypersensitivity. The expression of the genes predetd, to be associated with hypersensitivity is directly related to prevention or repair of toxic damage at the tissue, organ or system level. Gene databases arrays and apparatus useful for identifying hypersensitivity in a subject are also

disclosed. OS.CITING REF COUNT: THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD

(6 CITINGS) REFERENCE COUNT: THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2001:185566 CAPLUS

DOCUMENT NUMBER: 134:217186

TITLE: Method of treating cancer using a thiuram

disulfide such as tetraethyl thiuram disulfide INVENTOR(S): Kennedy, Thomas Preston

PATENT ASSIGNEE(S): Charlotte-Mecklenburg Hospital Authority, USA

SOURCE: PCT Int. Appl., 60 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001017522	A1	20010315	WO 1999-US27193	19991115 <
W: AU, CA, JP				

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,

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PT, SE
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PRIORITY APPLN. INFO.:
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
AB A dithiocarbamate, particularly tetra-Et thiuram disulfide, strongly
     inhibits the growth of cancer cells of a variety of cell types.
     Such inhibitory effect is enhanced by heavy metal ions (e.g. copper ions),
     cytokines, and ceruloplasmin. A method is presented for using tetra-Et
     thiuram disulfide to reduce tumor growth, and to potentiate the
     effect of other anticancer agents.
                        12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L23 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:351162 CAPLUS
DOCUMENT NUMBER:
                         133:790
                        New use of glutamate antagonists for the treatment of
TITLE:
INVENTOR(S): cancer Ikonomidou, Hrissanthi
PATENT ASSIGNEE(S): Germany
SOURCE: Eur. Pat. Appl., 21 pp.
                        CODEN: EPXXDW
DOCUMENT TYPE: Patent LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
     PATENT NO. KIND DATE APPLICATION NO. DATE
EP 1002535 A1 20000524 EP 1998-250380 19981028 <--
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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EP 1124553 A1 20010822 EP 1999-952622 19991022 <--
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     JP 2002528415 T 20020903 JP 2000-578005
EP 1586321 A1 20051019 EP 2005-12871
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             IE, FI, CY
    AT 416769 T 20081215 AT 2005-12871 19991022 US 6797692 B1 20040928 US 2001-830354 20010425 US 20050054619 A1 20050310 US 2004-912159 20040806 US 7247610 B2 20070724 US 20050054650 A1 20050310 US 2004-912175 20040806
                                                                   19991022 <--
20010425 <--
```

AB New therapies can be devised based upon a demonstration of the role of glutamate in the pathogenesis of cancer. Inhibitors of the interaction of glutamate with the AMPA, kainate, or NMDA receptor complexes are likely to be useful in treating cancer and can be formulated as pharmaceutical compns. They can be identified by appropriate screens.

OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE 'CAPLUS' ENTERED AT 11:19:51 ON 10 MAY 2010

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LZ I S DISULFIRAM/CN

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L15 1004074 S CANCER OR TUMOR OR NEOPLASM

L16 224 S L11 AND L15 L17 1654 S L12 AND L15 L18 3 S L13 AND L15

L19 2789 S L14 AND L15 L20 34 S (L16 OR L17) AND (L18 OR L19)

L21 34 DUP REM L20 (0 DUPLICATES REMOVED) L22 34 S L21

L23 10 S L21 AND AD<20030718

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COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 42.74 91.95

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL
ENTRY SESSION
-8.50
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-8.50

FILE 'MEDLINE' ENTERED AT 11:24:17 ON 10 MAY 2010

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FILE 'BIOSIS' ENTERED AT 11:24:17 ON 10 MAY 2010

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S DISULFIRAM/CN

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FILE 'CAPLUS' ENTERED AT 11:20:06 ON 10 MAY 2010 13 3380 S L2

S DISULFRAM/CN

FILE 'REGISTRY' ENTERED AT 11:20:23 ON 10 MAY 2010 L4 0 S DISULFRAM/CN

FILE 'CAPLUS' ENTERED AT 11:20:23 ON 10 MAY 2010 L5 0 S L4

L6 6756 S CURCUMIN

FILE 'REGISTRY' ENTERED AT 11:20:42 ON 10 MAY 2010

L7 1 S DISULFIRAM/CN L8 1 S CURCUMIN/CN L9 1 S BSO/CN

FILE 'CAPLUS' ENTERED AT 11:21:30 ON 10 MAY 2010

L11 3380 S L7 L12 5428 S L8 L13 1947 S L9

L10

L14 3851 S L10 L15 1004074 S CANCER OR TUMOR OR NEOPLASM

1 S BCNU/CN

L15 1004074 S CANCER OR TUMOR OR NEOPLASM L16 224 S L11 AND L15

L17 1654 S L12 AND L15 L18 3 S L13 AND L15 L19 2789 S L14 AND L15

L20 34 S (L16 OR L17) AND (L18 OR L19)

L21 34 DUP REM L20 (0 DUPLICATES REMOVED) L22 34 S L21

L22 34 S L21 L23 10 S L21 AND AD<20030718

FILE 'MEDLINE, EMBASE, BIOSIS' ENTERED AT 11:24:17 ON 10 MAY 2010

=> s 17<chem>

New TRANSFER and ANALYZE Commands Now Available See HELP TRANSFER and HELP ANALYZE for Details

 COST IN U.S. DOLLARS
 SINCE FILE ENTRY
 TOTAL ENTRY

 FULL ESTIMATED COST
 3.33
 95.28

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 SINCE FILE TOTAL ENTRY SESSION O. 0.0
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SET SMARTSELECT ON

SET COMMAND COMPLETED

SEL L7 1- CHEM

L24 SEL L7 1- CHEM : 72 TERMS

SET SMARTSELECT OFF SET COMMAND COMPLETED

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

FULL ESTIMATED COST

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SINCE FILE
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SESSION
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-9.50

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FILE 'EMBASE' ENTERED AT 11:24:41 ON 10 MAY 2010 Copyright (c) 2010 Elsevier B.V. All rights reserved.

FILE 'BIOSIS' ENTERED AT 11:24:41 ON 10 MAY 2010 Copyright (c) 2010 The Thomson Corporation

S L24

2 FILES SEARCHED... L25 53652 L24

=> s 18<chem>

SmartSELECT INITIATED

New TRANSFER and ANALYZE Commands Now Available See HELP TRANSFER and HELP ANALYZE for Details

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	3.33	114.10
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY 0.00	SESSION -8.50

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SET SMARTSELECT ON SET COMMAND COMPLETED

SEL L8 1- CHEM

L26 SEL L8 1- CHEM: 42 TERMS

SET SMARTSELECT OFF SET COMMAND COMPLETED

COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE
TOTAL
ENTRY
SESSION
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-8.50

FILE 'MEDLINE' ENTERED AT 11:25:20 ON 10 MAY 2010

FILE 'EMBASE' ENTERED AT 11:25:20 ON 10 MAY 2010 Copyright (c) 2010 Elsevier B.V. All rights reserved.

FILE 'BIOSIS' ENTERED AT 11:25:20 ON 10 MAY 2010 Copyright (c) 2010 The Thomson Corporation

S L26

L27 18699 L26

=> s 19<chem>

SmartSELECT INITIATED
New TRANSFER and ANALYZE Commands Now Available
See HELP TRANSFER and HELP ANALYZE for Details

COST IN U.S. DOLLARS

SINCE FILE
ENTRY
SESSION
FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CA SUBSCRIBER PRICE

SINCE FILE
ENTRY
SESSION
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-9.50
0.00
-9.50

FILE 'REGISTRY' ENTERED AT 11:25:33 ON 10 MAY 2010
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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SET SMARTSELECT ON SET COMMAND COMPLETED

SEL L9 1- CHEM

L28 SEL L9 1- CHEM : 13 TERMS

SET SMARTSELECT OFF SET COMMAND COMPLETED COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 15.49 148.41 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION

0.00

-8.50

-8.50

FILE 'MEDLINE' ENTERED AT 11:25:33 ON 10 MAY 2010

FILE 'EMBASE' ENTERED AT 11:25:33 ON 10 MAY 2010 Copyright (c) 2010 Elsevier B.V. All rights reserved.

FILE 'BIOSIS' ENTERED AT 11:25:33 ON 10 MAY 2010 Copyright (c) 2010 The Thomson Corporation

S L28

L29 5753 L28

CA SUBSCRIBER PRICE

=> s 110<chem>

SmartSELECT INITIATED New TRANSFER and ANALYZE Commands Now Available See HELP TRANSFER and HELP ANALYZE for Details

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SET SMARTSELECT ON SET COMMAND COMPLETED

SEL L10 1- CHEM

1.30 SEL L10 1- CHEM : 21 TERMS

SET SMARTSELECT OFF SET COMMAND COMPLETED

SINCE FILE TOTAL ENTRY SESSION 15.49 167.23 COST IN U.S. DOLLARS FULL ESTIMATED COST DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE
ENTRY
SOSON
CA SUBSCRIBER PRICE

0.00
5-8.5

FILE 'MEDLINE' ENTERED AT 11:25:41 ON 10 MAY 2010 FILE 'EMBASE' ENTERED AT 11:25:41 ON 10 MAY 2010

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Copyright (c) 2010 Elsevier B.V. All rights reserved.
FILE 'BIOSIS' ENTERED AT 11:25:41 ON 10 MAY 2010
Copyright (c) 2010 The Thomson Corporation
S L30
L31
       25542 L30
=> d his
     (FILE 'HOME' ENTERED AT 11:19:38 ON 10 MAY 2010)
     FILE 'CAPLUS' ENTERED AT 11:19:51 ON 10 MAY 2010
           2300 S DISULFIRAM
                S DISULFIRAM/CN
     FILE 'REGISTRY' ENTERED AT 11:20:06 ON 10 MAY 2010
              1 S DISULFIRAM/CN
L2
     FILE 'CAPLUS' ENTERED AT 11:20:06 ON 10 MAY 2010
L3
           3380 S L2
                S DISULFRAM/CN
     FILE 'REGISTRY' ENTERED AT 11:20:23 ON 10 MAY 2010
L4
              0 S DISULFRAM/CN
     FILE 'CAPLUS' ENTERED AT 11:20:23 ON 10 MAY 2010
L5
             0 S L4
L6
           6756 S CURCUMIN
     FILE 'REGISTRY' ENTERED AT 11:20:42 ON 10 MAY 2010
              1 S DISULFIRAM/CN
L7
L8
              1 S CURCUMIN/CN
L9
              1 S BSO/CN
L10
              1 S BCNU/CN
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L11
           3380 S L7
L12
           5428 S L8
L13
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           3851 S L10
L14
L15
       1004074 S CANCER OR TUMOR OR NEOPLASM
L16
           224 S L11 AND L15
           1654 S L12 AND L15
L18
             3 S L13 AND L15
L19
           2789 S L14 AND L15
L20
             34 S (L16 OR L17) AND (L18 OR L19)
L21
             34 DUP REM L20 (0 DUPLICATES REMOVED)
L22
             34 S L21
L23
             10 S L21 AND AD<20030718
     FILE 'MEDLINE, EMBASE, BIOSIS' ENTERED AT 11:24:17 ON 10 MAY 2010
     FILE 'REGISTRY' ENTERED AT 11:24:40 ON 10 MAY 2010
                SET SMARTSELECT ON
L24
            SEL L7 1- CHEM:
                                 72 TERMS
                SET SMARTSELECT OFF
     FILE 'MEDLINE, EMBASE, BIOSIS' ENTERED AT 11:24:41 ON 10 MAY 2010
1.25
          53652 S L24
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FILE 'REGISTRY' ENTERED AT 11:25:20 ON 10 MAY 2010

SET SMARTSELECT ON

L26 SEL L8 1- CHEM : 42 TERMS

SET SMARTSELECT OFF

FILE 'MEDLINE, EMBASE, BIOSIS' ENTERED AT 11:25:20 ON 10 MAY 2010

L27 18699 S L26

FILE 'REGISTRY' ENTERED AT 11:25:33 ON 10 MAY 2010

SET SMARTSELECT ON

SEL L9 1- CHEM: 13 TERMS L28

SET SMARTSELECT OFF

FILE 'MEDLINE, EMBASE, BIOSIS' ENTERED AT 11:25:33 ON 10 MAY 2010 1.29

5753 S L28

FILE 'REGISTRY' ENTERED AT 11:25:41 ON 10 MAY 2010

SET SMARTSELECT ON

L30 SEL L10 1- CHEM: 21 TERMS

SET SMARTSELECT OFF

FILE 'MEDLINE, EMBASE, BIOSIS' ENTERED AT 11:25:41 ON 10 MAY 2010 1.31 25542 S L30

=> s cancer or tumor or neoplasm

L32 6349459 CANCER OR TUMOR OR NEOPLASM

=> s 125 and 132

5417 L25 AND L32

=> s 127 and 132

L34 6435 L27 AND L32

=> s 129 and 132

1.35 2099 L29 AND L32

=> s 131 and 132

L36 18174 L31 AND L32

=> s (133 or 134) and (135 or 136)

1.37 66 (L33 OR L34) AND (L35 OR L36)

=> s 137 and pd<20030718

1 FILES SEARCHED... 22 L37 AND PD<20030718

=> d 138 1-22 ibib abs

L38 ANSWER 1 OF 22 MEDLINE on STN

ACCESSION NUMBER: 2002705766 MEDLINE

DOCUMENT NUMBER: PubMed ID: 12467214

TITLE: Disulfiram induces apoptosis in human melanoma

cells: a redox-related process.

AUTHOR: Cen Dazhi; Gonzalez Rachel I; Buckmeier Julie A; Kahlon

Ravi S; Tohidian Nilou B; Meyskens Frank L Jr

CORPORATE SOURCE: Department of Medicine, Chao Family Comprehensive Cancer Center, College of Medicine, University of California,

Irvine, 101 City Drive South, Building 23, Suite 403, Orange, CA 92868, USA.

CONTRACT NUMBER: P30CA62203 (United States NCI NIH HHS)

SOURCE: Molecular cancer therapeutics, (2002 Jan) Vol. 1,

No. 3, pp. 197-204.

Journal code: 101132535. ISSN: 1535-7163. L-ISSN:

1535-7163.

PUB. COUNTRY: United States DOCUMENT TYPE: (COMPARATIVE STUDY)

Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T) (RESEARCH SUPPORT, U.S. GOV'T, P.H.S.)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200301

ENTRY DATE: Entered STN: 17 Dec 2002

Last Updated on STN: 17 Jan 2003

Entered Medline: 16 Jan 2003

AB Melanoma is highly resistant to conventional chemotherapy. We have demonstrated that redox regulation in melanoma cells is aberrant, and redox-modulating agents can induce cell apoptosis. We have currently explored the effect of disulfiram (DSF), a member of the dithiocarbamate family, on apoptosis of melanoma cells in vitro. Human metastatic melanoma cells c81-46A, c81-61, and c83-2C were treated with DSF and apoptosis measured. DSF, at a dose of 25-50 ng/ml, consistently caused a 4-6-fold increase in apoptosis. The same dose of DSF did not significantly affect apoptosis in melanocytes. Coincubation of N-acetyl-cysteine reversed the DSF-induced apoptosis. Buthionine sulfoximine (BSO), an inhibitor of gamma-glutamvl-cvsteine synthetase, as a single agent caused a approximately 2-fold increase in apoptosis when incubated with melanoma cells for 4 days. BSO slightly enhanced the level of apoptosis induced by DSF (4-10% higher than DSF alone). Intracellular glutathione was remarkably depleted with BSO treatment. DSF did not cause glutathione depletion; however, the ratio of reduced and oxidized glutathione was significantly decreased (14% of control), and N-acetyl-cysteine partially restored the ratio to 30% of control. There was a transient (2-fold) elevation of intracellular superoxide level after 24 h of DSF treatment (before the overt apoptosis). The intracellular H202 level progressively decreased with time. DSF decreased the mitochondrial membrane polarization in a time-dependent manner, and there was a significant inverse correlation between apoptosis and mitochondrial membrane polarization. We propose that DSF-induced apoptosis is redox related but involves a different mechanism from BSO-induced apoptosis in tumor cells. Our findings have provided new data for additional understanding of drug-induced apoptosis in melanoma cells and suggests an alternative therapeutic approach to

L38 ANSWER 2 OF 22 MEDLINE on STN ACCESSION NUMBER: 2002187475 MEDLINE DOCUMENT NUMBER: PubMed ID: 11920175

melanoma.

TITLE: The impact of autologous stem cell transplantation on the prognosis of mantle cell lymphoma: a joint analysis of two

prospective studies with 46 patients.

Dreger P; Martin S; Kuse R; Sonnen R; Glass B; Kroger N; AUTHOR:

Parwaresch R; Kneba M; Schmitz N; Haas R

CORPORATE SOURCE: Second Department of Medicine, University of Kiel, Germany. SOURCE: The hematology journal : the official journal of the

European Haematology Association / EHA, (2000)

Vol. 1, No. 2, pp. 87-94. Journal code: 100965523. ISSN: 1466-4860. L-ISSN:

1466-4860.

PUB. COUNTRY: England: United Kingdom DOCUMENT TYPE: (CLINICAL TRIAL)

(COMPARATIVE STUDY)

(CONTROLLED CLINICAL TRIAL)

Journal; Article; (JOURNAL ARTICLE)

(MULTICENTER STUDY)

(RESEARCH SUPPORT, NON-U.S. GOV'T)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200205

ENTRY DATE: Entered STN: 3 Apr 2002

Last Updated on STN: 9 May 2002

Entered Medline: 8 May 2002

AB INTRODUCTION: The purpose of this analysis was to investigate if early sequential high-dose therapy with autologous stem cell transplantation (ASCT) can improve the poor prognosis of patients with disseminated mantle cell lymphoma (MCL). PATIENTS AND METHODS: A joint analysis of two parallel single center studies was performed. Both were characterized by a sequential high-dose therapy consisting of an intensive chemotherapy ('HAM' or 'Dexa-BEAM') for mobilization of peripheral blood stem cells and induction of minimal disease followed by a total body irradiation-containing myeloablative regimen and ASCT. Forty-six patients with reference panel-confirmed stage III/IV MCL were included. Thirty-four patients were accrued to the protocol immediately after diagnosis ('upfront ASCT' group). These 34 patients received a standard first-line regimen prior to mobilization. The remaining 12 patients were put on the protocol later during the course of their disease ('delayed ASCT' group). RESULTS: All patients were in remission after mobilization chemotherapy and proceeded to ASCT; there were no exclusions due to poor response, poor mobilization, or patient refusal. With a follow-up of 24 (2-73) months post transplant, the event-free and overall survival probabilities at 2 years were 77 and 100% for the upfront ASCT group compared to 30% (P=0.0007) and 54% (P=0.0016) for the delayed ASCT group. Event-free and overall survival tended to be longer in the upfront ASCT group than in the delayed ASCT group also if calculated from initial diagnosis (76 and 93% vs 42 and 63%, respectively, at 4 years after diagnosis; median follow-up 35 months), although this was not statistically significant. Besides timing of ASCT, only spleen size was identified as an independent predictor of survival by univariate and multivariate analysis. CONCLUSION: ASCT is not curative but may improve the prognosis of patients with MCL if performed as part of an intensive first-line treatment strategy. In contrast, the benefits of this approach for salvaging individuals with relapsed disease appear to be limited.

L38 ANSWER 3 OF 22 MEDLINE ON STN ACCESSION NUMBER: 2001548694 MEDLINE DOCUMENT NUMBER: PubMed ID: 11595684

TITLE: Sequential tumor biopsies in early phase clinical

trials of anticancer agents for pharmacodynamic evaluation. Dowlati A; Haaga J; Remick S C; Spiro T P; Gerson S L; Liu

L; Berger S J; Berger N A; Willson J K
CORPORATE SOURCE: Division of Hematology/Oncology, Depar

Division of Hematology/Oncology, Department of Medicine, Ireland Cancer Center at University Hospitals of Cleveland,

11100 Euclid Avenue, Cleveland, OH 44106, USA..

axd44@po.cwru.edu CONTRACT NUMBER: MO1-RR-00080 (Unit

MO1-RR-00080 (United States NCRR NIH HHS) P30 CA43703 (United States NCI NIH HHS)

UO1 CA62502 (United States NCI NIH HHS)

Clinical cancer research : an official journal of the American Association for Cancer Research, (2001

Oct) Vol. 7, No. 10, pp. 2971-6.

Journal code: 9502500. ISSN: 1078-0432. L-ISSN: 1078-0432.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, U.S. GOV'T, P.H.S.)

LANGUAGE: English

AUTHOR:

SOURCE:

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200112

ENTRY DATE: Entered STN: 15 Oct 2001

Last Updated on STN: 22 Jan 2002

Entered Medline: 5 Dec 2001

PURPOSE: In the setting of target-based anticancer drug development, it is critical to establish that the observed preclinical activity can be attributed to modulation of the intended target in early phase trials in human subjects. This paradigm of target modulation allows us to determine a Phase II or III dose (optimal biochemical/biological modulatory dose) that may not necessarily be the maximum tolerated dose. A major obstacle to target-based (often cytostatic) drug development has been obtaining relevant tumor tissue during clinical trials of these novel agents for laboratory analysis of the putative marker of drug effect. EXPERIMENTAL DESIGN: From 1989 to present, we have completed seven clinical trials in which the end point was a biochemical or biological modulatory dose in human tumor tissues (not surrogate tissue). Eligibility enrollment required that patients have a biopsiable lesion either with computerized tomography (CT) guidance or direct visualization and consent to sequential (pre and posttreatment) biopsies. RESULTS: A total of 192 biopsies were performed in 107 patients. All but 8 patients had sequential pre and posttreatment biopsies. Seventy-eight (73%) of the 107 patients had liver lesion biopsies. In eight patients, either one or both biopsies contained insufficient viable tumor tissue or no tumor tissue at all for analysis. Of a total of 99 patients in whom we attempted to obtain paired biopsies, a total of 87 (88%) were successful. Reasons for failure included patient refusal for a second biopsy (n = 2), vasovagal reaction with first biopsy precluding a second biopsy (n = 1), subcapsular hepatic bleeding (n = 1), and most commonly obtaining necrotic tumor, fibrous, or normal tissue in one of the two sequential biopsies (n = 8). CONCLUSIONS: This is the first and largest reported series demonstrating that with adequate precautions and experience, sequential tumor biopsies are feasible and safe during early phase clinical trials.

L38 ANSWER 4 OF 22 MEDLINE on STN ACCESSION NUMBER: 1997178737 MEDLINE DOCUMENT NUMBER: PubMed ID: 9053470

TITLE: Intensified and high-dose chemotherapy with granulocyte

colony-stimulating factor and autologous stem-cell

transplantation support as first-line therapy in high-risk

diffuse large-cell lymphoma.

AUTHOR: Vitolo U; Cortellazzo S; Liberati A M; Freilone R; Falda M;

Bertini M: Botto B: Cinieri S: Levis A: Locatelli F:

American Society of Clinical Oncology, (1997 Feb)

Lovisone E: Marmont F: Pizzuti M: Rossi A: Viero P: Barbui T; Grignani F; Resegotti L

CORPORATE SOURCE: Divisione di Ematologia Azienda Ospedaliera S. Giovanni

Battista, Torino, Italy.

Journal of clinical oncology : official journal of the SOURCE:

Vol. 15, No. 2, pp. 491-8.

Journal code: 8309333. ISSN: 0732-183X. L-ISSN: 0732-183X. United States

PUB. COUNTRY: DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199703

ENTRY DATE: Entered STN: 21 Mar 1997

Last Updated on STN: 21 Mar 1997 Entered Medline: 10 Mar 1997

AB PURPOSE: In our previous study with MACOPB, we identified a high-risk group of patients with a poor 3-year survival rate of 29%. These patients were defined as having at diagnosis advanced-stage disease with high tumor burden (TB) and elevated lactate dehydrogenase (LDH) level

or bone marrow (BM) involvement. A novel therapeutic scheme was investigated to improve the outcome of these patients. PATIENTS AND METHODS: Fifty patients with high-risk diffuse large-cell lymphoma (DLCL) were enrolled. The therapeutic scheme includes three phases: induction with 8 weeks of MACOPB: intensification with a 3-day course of mitoxantrone 8 mg/m2 plus high-dose cytarabine (HDARA-C) 2 g/m2 every 12 hours plus dexamethasone 4 mg/m2 every 12 hours (MAD protocol) and granulocyte colony-stimulating factor (G-CSF) 5 microg/kg on days 4 to 17 to harvest peripheral-blood progenitor cells (PBPC); consolidation with carmustine (BCNU), etoposide, ARA-C, and melphalan (BEAM) regimen; plus autologous stem-cell transplantation (ASCT) with PBPC, marrow, or both. RESULTS: Thirty-six patients (72%) achieved a complete response (CR), 11 (22%) showed no response (NR), and three (6%) died of toxicity. Among the 22 PRs or NRs after the induction phase, 56% of patients achieved a CR with subsequent intensified therapy. With a median follow-up duration of 32 months, the overall survival and failure-free survival rates were 56% and 50%, respectively. The disease-free survival rate is 69% at 32 months. Leukapheresis after MAD and G-CSF yielded a median of 32 x 10(6)/kg CD34+ cells and 80 x 10(4)/kg granulocyte-macrophage colony-forming units (CFU-GM). Thirty-nine patients were autografted and 11 did not undergo ASCT: six because of disease progression, four due to toxicity, and one because of patient refusal. The median times to achieve engrafment were 11 days (range, 7 to 19) to a neutrophil count greater than 0.5 x 10(9)/L and 12 days (range, 8 to 60) to a platelet count greater than 50 x 10(9)/L. CONCLUSION: This sequential scheme with intensified and high-dose chemotherapy with ASCT is feasible with moderate toxicity and may improve the outcome in high-risk DLCL.

L38 ANSWER 5 OF 22 MEDLINE on STN
ACCESSION NUMBER: 1985289898 MEDLINE
DOCUMENT NUMBER: PubMed ID: 3928682

TITLE: Hydrogen peroxide from cellular metabolism of cystine. A

requirement for lysis of murine tumor cells by

vernolepin, a glutathione-depleting antineoplastic.

AUTHOR: Arrick B A; Griffo W; Cohn Z; Nathan C CONTRACT NUMBER: CA22090 (United States NCI NIH HHS) HL-07029 (United States NHLBI NIH HHS)

SOURCE: The Journal of clinical investigation, (1985 Aug)

Vol. 76, No. 2, pp. 567-74.

Journal code: 7802877, ISSN: 0021-9738, L-ISSN: 0021-9738.

Report No.: NLM-PMC423862.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 198510

ENTRY DATE: Entered STN: 20 Mar 1990

Last Updated on STN: 3 Mar 2000

Entered Medline: 2 Oct 1985

AB The sesquiterpene lactone antineoplastic vernolepin acutely depletes murine tumor cell glutathione (GSH), and lyses the cells by an unknown mechanism that is enhanced synergistically by inhibition of GSH synthesis with buthionine sulfoximine (BSO) (Arrick et al. 1983. J. Clin. Invest. 71:28B). We found here that lysis of P815 mastocytoma cells by vernolepin, with or without BSO, required cystine in the culture medium. Addition of catalase markedly suppressed vernolepin-mediated cytolysis in cystine-containing media, suggesting the involvement of hydrogen peroxide in the cytolytic action of vernolepin. Consistent with this, inhibition of tumor cell glutathione

(RESEARCH SUPPORT, U.S. GOV'T, P.H.S.)

disulfide reductase with 1,3-bis(2 -chloroethyl)-1-nitrosourea or inhibition of endogenous catalase with aminotriazole synergistically augmented cytolysis by vernolepin. Moreover, H202 was released by suspensions of P815 cells in cystine-containing buffer (63 pmol/10(6) cells X h). Omission of cystine reduced the rate of H2O2 accumulation 10-fold. No H2O2 was detected without cells. Cytolysis by vernolepin could be restored in cystine-deficient medium by several other disulfides, themselves noncytolytic, such as disulfiram and oxidized Captopril, as well as by cysteine. In contrast, withholding two other essential amino acids (leucine or tryptophan) or adding cycloheximide did not interfere with cytolysis by vernolepin. These results suggest that cellular uptake of disulfides of physiologic and pharmacologic interest may be followed by their intracellular reduction and autooxidation with generation of H2O2. This previously unrecognized source of intracellular oxidant stress may be an important component of injury to GSH-depleted cells.

L38 ANSWER 6 OF 22 EMBASE COPYRIGHT (c) 2010 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER: 2002405422 EMBASE

TITLE: Brain cancer: A case of glioblastoma multiforme.

AUTHOR: Chang, Raymond, Dr. (correspondence); Finlay, Jonathan; Badmaev, Vladimir; Singh, Ram Harsh; Chapman, Jnani Institute of East-West Medicine, 102 East 30th Street, New CORPORATE SOURCE:

York, NY 10016, United States. rchang@eastwestmed.org

Journal of Alternative and Complementary Medicine, (SOURCE: Oct 2002) Vol. 8, No. 5, pp. 551-558.

Refs: 5

ISSN: 1075-5535 CODEN: JACPFP

COUNTRY: United States

DOCUMENT TYPE: Journal; Conference Article; (Conference paper)

FILE SEGMENT: 016 Cancer 037 Drug Literature Index

038 Adverse Reactions Titles LANGUAGE: English

ENTRY DATE: Entered STN: 2 Dec 2002 Last Updated on STN: 2 Dec 2002

L38 ANSWER 7 OF 22 EMBASE COPYRIGHT (c) 2010 Elsevier B.V. All rights

reserved on STN ACCESSION NUMBER: 2002119492 EMBASE

TITLE: Redox signaling-mediated regulation of

lipopolysaccharide-induced proinflammatory cytokine

biosynthesis in alveolar epithelial cells. AUTHOR: Haddad, John J., Dr. (correspondence); Land, Stephen C.

CORPORATE SOURCE: Neuroscience Research Laboratory, Department of Anesthesia, Univ. of California at San Francisco, 513 Parnassus Avenue,

San Francisco, CA 94143-0542, United States, haddadi@anesth esia.ucsf.edu

SOURCE: Antioxidants and Redox Signaling, (2002) Vol. 4,

No. 1, pp. 179-193.

Refs: 46

ISSN: 1523-0864 CODEN: ARSIF2

COUNTRY: United States

DOCUMENT TYPE: Journal: Article

FILE SEGMENT: 026 Immunology, Serology and Transplantation 029 Clinical and Experimental Biochemistry

LANGUAGE: English

SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 18 Apr 2002

Last Updated on STN: 18 Apr 2002

The regulation of cytokine gene transcription and biosynthesis involves

the reduction-oxidation (redox)-sensitive nuclear factor-κB (NF-kB), whose activation is mediated by an upstream kinase that regulates the phosphorylation of inhibitory-κB (IκB). It was hypothesized that lipopolysaccharide (LPS)-induced biosynthesis of interleukin-1β, interleukin-6, and tumor necrosis factor- α in vitro is regulated by redox equilibrium. In alveolar epithelial cells, we investigated the role of L-buthionine-(S,R)-sulfoximine (BSO), an irreversible inhibitor of y-glutamylcysteine synthetase, the rate-limiting enzyme in GSH biosynthesis, 1,3-bis-(2chloroethyl)-1-nitrosourea (BCNU), which inhibits glutathione oxidized disulfide reductase, pyrrolidine dithiocarbamate (PDTC), an antioxidant/prooxidant thiuram, and N-acetyl-L-cysteine (NAC), an antioxidant and GSH precursor, in regulating LPS-induced cytokine biosynthesis and IκB-α/NF-κB signaling. BSO blockaded the phosphorylation of $I\kappa B-\alpha$, reduced its degradation, and inhibited NF- κB activation, besides augmenting LPS-mediated biosynthesis of cytokines. BCNU up-regulated LPS-induced release of cytokines, an effect associated with partial phosphorylation/degradation of IκB-α and inhibition of the DNA binding activity. PDTC, which partially affected LPS-induced IκB-α phosphorylation/degradation, otherwise blockading NF-KB activation, reduced LPS-dependent up-regulation of cytokine release. Pretreatment with BSO did not abolish the NAC-dependent reduction of LPS-induced cytokine release, despite the fact that NAC marginally amplified IκB-α phosphorylation/degradation and suppressed NF-κB activation. These results indicate that cytokines are redox-sensitive mediators and that the $I\kappa B - \alpha/NF - \kappa B$ pathway is redox-sensitive and differentially implicated in mediating redox-dependent regulation of LPS-induced release of proinflammatory cytokines. L38 ANSWER 8 OF 22 EMBASE COPYRIGHT (c) 2010 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER:

FILE SEGMENT:

2001403840 EMBASE

TITLE: Autologous transplantation in acute myeloid leukemia: Peripheral blood stem cell harvest after mobilization in steady state by granulocyte colony-stimulating factor

AUTHOR: Voog, E.; Le, Q.H.; Philip, I.; Benetaib, B.; Michallet,

M.; Fiere, D.; Thomas, X. (correspondence) CORPORATE SOURCE: Service d'Hematologie, Service des Maladies du Sang,

Hopital E. Herriot, 69437 Lyon, Cedex 03, France.

xavier.thomas@chu-lyon.fr

SOURCE: Annals of Hematology, (2001) Vol. 80, No. 10, pp.

584-591. Refs: 43

ISSN: 0939-5555 CODEN: ANHEE8

COUNTRY: Germany DOCUMENT TYPE: Journal; Article

> 016 Cancer 025 Hematology

030 Clinical and Experimental Pharmacology

037 Drug Literature Index

LANGUAGE: English

English SUMMARY LANGUAGE: ENTRY DATE:

Entered STN: 6 Dec 2001

Last Updated on STN: 6 Dec 2001

AB In order to determine whether granulocyte colony-stimulating factor (G-CSF) alone initiated during steady state was able to mobilize peripheral blood stem cells (PBSC) in acute myeloid leukemia (AML) and to assess predictive factors for engraftment after autologous PBSC

transplantation, we studied 49 successive adult AML patients for whom autologous transplantation was planned between July 1994 and November 1998. G-CSF was used as priming agent and was initiated at least 4 weeks after the last day of chemotherapy, while neutrophil count was >0.5+10 9/1 and platelet count was >30+109/1. A median of three aphereses was performed resulting in a median collection of 14.8+108 nucleated cells/kg containing 7.7+108 mononuclear cells/kg, 47.1+104 CFU-GM/kg, and 3.8+106 CD34+ cells/kg. A significant correlation was observed between nucleated cell, mononuclear cell, and CFU-GM vields, while no correlation was found with CD34+ cell yield. Recruitment was not significantly different in patients with CD34+ leukemic cells at the time of initial diagnosis when compared to that of those presenting with CD34- blastic cells. Thirty-three patients actually underwent transplantation. Reasons for not autografting were inadequate stem cell harvest (ten patients), early relapse (two patients), prolonged neutropenia (one patient), organ failure (two patients), or patient refusal (one patient). Median time to achieve a neutrophil count greater than 0.5+109/1 and platelet count >50+109/1 untransfused was 13 and 36 days, respectively. A predictive factor for a shorter period neutropenia and a shorter thrombopenia was a higher count of harvested nucleated cells (p<0.01 and p=0.02, respectively). A higher count of harvested cells was also a predictive factor for less red cell and platelet transfusions (p=0.03 and p=0.02, respectively). The number of CD34+ harvested PBSC was not predictive for engraftment. We conclude that PBSC mobilization with G-CSF alone initiated in steady state is a feasible, safe, and suitable procedure for harvesting cells in sight of autologous transplantation in adult acute myeloid leukemia.

L38 ANSWER 9 OF 22 EMBASE COPYRIGHT (c) 2010 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER: 2001213017 EMBASE

TITLE: High-dose therapy and autologous stem-cell transplantation versus conventional-dose consolidation/maintenance therapy

> as postremission therapy for adult patients with lymphoblastic lymphoma: Results of a randomized trial of

the european group for blood and marrow transplantation and the united kingdom lymphoma group.

AUTHOR: Sweetenham, J.W., Dr. (correspondence); Santini, G.; Qian,

W.; Guelfi, M.; Schmitz, N.; Simnett, S.; Nagler, A.; Holte, H.; Kvalov, S.; Bruzzi, P.; Goldstone, A.H.

CORPORATE SOURCE: Univ. of Colorado Hlth. Sci. Center, Division of Medical Oncology-B171, 4200 E 9th Ave., Denver, CO 80262, United

States. john.sweetenham@uchsc.edu

Journal of Clinical Oncology, (1 Jun 2001) Vol. SOURCE: 19, No. 11, pp. 2927-2936.

Refs: 21

ISSN: 0732-183X CODEN: JCONDN

United States COUNTRY: DOCUMENT TYPE: Journal: Article FILE SEGMENT:

016 Cancer 025 Hematology

> 037 Drug Literature Index

LANGUAGE: English SUMMARY LANGUAGE: English

Entered STN: 17 Jul 2001 ENTRY DATE:

Last Updated on STN: 17 Jul 2001

AB Purpose: To determine whether a combination of high-dose therapy and autologous stem-cell transplantation (ASCT) is superior to conventional-dose consolidation and maintenance chemotherapy as postremission therapy in adults with lymphoblastic lymphoma. Patients and Methods: One hundred nineteen patients were entered onto this prospective randomized trial from 37 centers. Patients received standard remission

induction therapy, and responding patients were randomized either to continue with a conventional consolidation/maintenance protocol (CC) or to receive high-dose therapy and ASCT. In some centers, patients with HLA-identical sibling donors were registered on the trial but proceeded to allogeneic bone marrow transplantation (BMT) without randomization. Results: Of the 119 patients entered, 111 were assessable for response to induction therapy. The overall response rate was 82% (56% complete response, 26% partial response). Of the 98 patients eligible for randomization, 65 were randomized, 31 to ASCT and 34 to CC. Reasons for failure to randomize included patient refusal (12 patients). early progression or death on induction therapy (eight patients), excessive toxicity of induction regimen (six patients), and elective allogeneic BMT (12 patients). With a median follow-up of 37 months, the actuarial 3-year relapse-free survival rate is 24% for the CC arm and 55% for the ASCT arm (hazards ratio = 0.55 in favor of the ASCT arm; 95% confidence interval [C1], 0.29 to 1.04; P = .065). The corresponding figures for overall survival are 45% and 56%, respectively (hazards ratio = 0.87 in favor of the ASCT arm; 95% Cl, 0.42 to 1.81; P = .71). Conclusion: The use of ASCT in adults with lymphoblastic lymphoma in first remission produced a trend for improved relapse-free survival but did not improve overall survival compared with conventional-dose therapy in this small randomized trial. .COPYRGT. 2001 by American Society of Clinical Oncology.

L38 ANSWER 10 OF 22 EMBASE COPYRIGHT (c) 2010 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER: 1997050546 EMBASE

TITLE: Intensified and high-dose chemotherapy with granulocyte

colony- stimulating factor and autologous stem-cell transplantation support as first- line therapy in high-risk

diffuse large-cell lymphoma.

AUTHOR: Vitolo, Umberto, Dr. (correspondence)

CORPORATE SOURCE: Divisione di Ematologia, Azienda Ospedaliera S. Giovanni

B., corso Bramante 90, 10126 Torino, Italy.

AUTHOR: Cortellazzo, Sergio; Liberati, Anna Maria; Freilone,

Roberto; Falda, Michele; Bertini, Marilena; Botto, Barbara; Cinieri, Saverio; Levis, Alessandro; Locatelli, Franco;

Lovisone, Elisabetta; Marmont, Filippo; Pizzuti, Michele; Rossi, Andrea; Viero, Piera; Barbui, Tiziano; Grignani,

Fausto; Resegotti, Luigi

AUTHOR: Vitolo, Umberto, Dr. (correspondence)

CORPORATE SOURCE: Divisione di Ematologia, AOSGBM, carso Brarnante 90, 10126

Torino, Italy.

SOURCE: Journal of Clinical Oncology, (Feb 1997) Vol. 15,

No. 2, pp. 491-498.

Refs: 38

ISSN: 0732-183X CODEN: JCONDN

COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 016 Cancer

016 Cancer 025 Hematology

037 Drug Literature Index

038 Adverse Reactions Titles

LANGUAGE: English SUMMARY LANGUAGE: English

SUMMARY LANGUAGE: English
ENTRY DATE: Entered STN: 10 Mar 1997

Last Updated on STN: 10 Mar 1997

B Purpose: In our previous study with MACOPB, we identified a high-risk group of patients with a poor 3-year survival rate of 29%. These patients were defined as having at diagnosis advanced-stage disease with high tumor burden (TB) and elevated lactate dehydrogenase (LDH) level or bone marrow (BM) involvement. A novel therapeutic scheme was

investigated to improve the outcome of these patients. Patients and Methods: Fifty patients with high- risk diffuse large-cell lymphoma (DLCL) were enrolled. The therapeutic scheme includes three phases: induction with 8 weeks of MACOPB; intensification with a 3-day course of mitoxantrone 8 mg/m2 plus high-dose cytarabine (HDARA-C) 2 g/m2 every 12 hours plus dexamethasone 4 mg/m2 every 12 hours (MAD protocol) and granulocyte colony-stimulating factor (G-CSF) 5 µg/kg on days 4 to 17 to harvest peripheral-blood progenitor cells (PBPC); consolidation with carmustine (BCNU), etoposide, ARA-C, and melphalan (BEAM) regimen; plus autologous stem-cell transplantation (ASCT) with PBPC, marrow, or both. Results: Thirty-six patients (72%) achieved a complete response (CR), 11 (22%) showed no response (NR), and three (6%) died of toxicity. Among the 22 PRs or NRs after the induction phase, 56% of patients achieved a CR with subsequent intensified therapy. With a median follow-up duration of 32 months, the overall survival and failure-free survival rates were 56% and 50%, respectively. The disease-free survival rate is 69% at 32 months. Leukapheresis after MAD and G-CSF yielded a median of 32 x 106/kg CD34+ cells and 80 x 104/kg granulocyte-macrophage colony-forming units (CFU-GM). Thirty-nine patients were autografted and 11 did not undergo ASCT: six because of disease progression, four due to toxicity, and one because of patient refusal. The median times to achieve engrafment were 11 days (range, 7 to 19) to a neutrophil count greater than 0.5 x 109/L and 12 days (range, 8 to 60) to a platelet count greater than 50 x 109/L. Conclusion: This sequential scheme with intensified and high-dose chemotherapy with ASCT is feasible with moderate toxicity and may improve the outcome in high-risk DLCL.

L38 ANSWER 11 OF 22 EMBASE COPYRIGHT (c) 2010 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER: 1996018010 EMBASE

TITLE: Outcome of extensive evaluation before adjuvant therapy in

women with breast cancer and 10 or more positive

axillary lymph nodes.

AUTHOR: Crump, Michael, Dr. (correspondence)

CORPORATE SOURCE: Toronto Hospital, 200 Elizabeth St, Toronto, Ont. M5G 2C4, Canada.

AUTHOR:

Goss, Paul E.; Prince, Miles; Girouard, Caroline AUTHOR: Crump, Michael, Dr. (correspondence)

CORPORATE SOURCE: Toronto Hospital, Mulock-Larkin Wing 2-018, 200 Elizabeth St. Toronto, Ont. M5G 2C4, Canada.

Journal of Clinical Oncology, (Jan 1996) Vol. 14, SOURCE:

No. 1, pp. 66-69.

Refs: 21

ISSN: 0732-183X CODEN: JCONDN

United States COUNTRY: DOCUMENT TYPE: Journal; Article FILE SEGMENT:

016 Cancer 037 Drug Literature Index

LANGUAGE: English

SUMMARY LANGUAGE: English ENTRY DATE:

Entered STN: 6 Feb 1996 Last Updated on STN: 6 Feb 1996

Purpose: To evaluate the effect of extensive screening of women with high-

risk, node-positive breast cancer on the detection of occult metastatic disease and patient eligibility for a randomized trial of the addition of high-dose chemotherapy and autologous bone marrow support (ABMT) to standard adjuvant therapy. Patients and Methods: Women with resected T1-3N1,2 primary breast cancer and ≥ 10 positive axillary lymph nodes referred for possible trial participation were evaluated for this report. All had normal chest x- ray, bone scan, and liver ultrasound performed by the referring physician. Those who provided informed consent for the randomized trial were further evaluated according to protocol with computed tomographic (CT) scans of the head, chest, abdomen, and pelvis and bilateral bone marrow biopsies; those with metastatic disease detected by any of these tests were excluded from study registration. Results: Forty-four women were evaluated between February 1993 and April 1995. Fourteen did not undergo further protocol staging because of refusal to participate or the presence of metastatic disease on clinical assessment or review of outside radiologic studies. The remaining 30 underwent additional investigations, and seven (23%; 95% confidence interval [CI], 12% to 41%) bad metastases detected by CT scanning (four patients) or bone marrow biopsy (three patients) not detected by routine screening. Conclusion: Although the number of patients evaluated is small, these data suggest that some of the improvement in outcome of women with ≥ 10 positive axillary lymph nodes who receive ABMT as part of adjuvant chemotherapy in phase II trials may be from the exclusion of patients with occult metastatic disease. The importance of these exclusions can only be determined by ongoing, randomized controlled trials.

L38 ANSWER 12 OF 22 EMBASE COPYRIGHT (c) 2010 Elsevier B.V. All rights

reserved on STN ACCESSION NUMBER: 1985227070 EMBASE

TITLE: Hydrogen peroxide from cellular metabolism of cystine: A

requirement for lysis of murine tumor cells by vernolepin, a glutathione-depleting antineoplastic.

AUTHOR: Arrick, B.A.; Griffo, W.; Cohn, Z.; Nathan, C.
CORPORATE SOURCE: The Rockefeller University, New York, NY 10021, United
States.

SOURCE: Journal of Clinical Investigation, (1985) Vol.

76, No. 2, pp. 567-574.

ISSN: 0021-9738 CODEN: JCINAO United States
DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 016 Cancer 029 Clinical and Experimental Biochemistry

030 Clinical and Experimental Pharmacology 037 Drug Literature Index

037 Drug Literature Index LANGUAGE: English

ENTRY DATE: Entered STN: 10 Dec 1991

Last Updated on STN: 10 Dec 1991
AB The sesquiterpene lactone antineoplastic vernolepin acutely depletes

murine tumor cell glutathione (GSH), and lyses the cells by an unknown mechanism that is enhanced synergistically by inhibition of GSH synthesis with buthionine sulfoximine (BSO). We found here that lysis of P815 mastocytoma cells by vernolepin, with or without BSO , required cystine in the culture medium. Addition of catalase markedly suppressed vernolepin-mediated cytolysis in cystine-containing media, suggesting the involvement of hydrogen peroxide in the cytolytic action of vernolepin. Consistent with this, inhibition of tumor cell glutathione disulfide reductase with 1,3-bis (2-chloroethyl)-1-nitrosourea or inhibition of endogenous catalase with aminotriazole synergistically augmented cytolysis by vernolepin. Moreover, H2O2 was released by suspensions of P815 cells in cystine-containing buffer (63 pmol/106 cells .ovrhdot. h). Omission of cystine reduced the rate of H2O2 accumulation 10-fold. No H2O2 was detected without cells. Cytolysis by vernolepin could be restored in cystine-deficient medium by several other disulfides, themselves non-cytolytic, such as disulfiram and oxidized Captopril, as well as by cysteine. In contrast, withholding two other essential amino acids (leucine or tryptophan) or adding cycloheximide did not interfere with cytolysis by vernolepin. These results suggest that cellular uptake of disulfides of physiologic and pharmacologic interest

may be followed by their intracellular reduction and autooxidation with generation of H202. This previously unrecognized source of intracellular oxidant stress may be an important component of injury to GSH-depleted cells.

L38 ANSWER 13 OF 22 EMBASE COPYRIGHT (c) 2010 Elsevier B.V. All rights

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ACCESSION NUMBER: 1984057569 EMBASE

TITLE: Elmustine.

SOURCE: Drugs of the Future, (1984) Vol. 9, No. 1, pp.

18-19.

ISSN: 0377-8282 CODEN: DRFUD4

COUNTRY: Spain DOCUMENT TYPE:

Journal 037

FILE SEGMENT: Drug Literature Index

LANGUAGE: Enalish ENTRY DATE: Entered STN: 10 Dec 1991

Last Updated on STN: 10 Dec 1991

L38 ANSWER 14 OF 22 EMBASE COPYRIGHT (c) 2010 Elsevier B.V. All rights

reserved on STN ACCESSION NUMBER: 1979134140 EMBASE

TITLE: Carcinoma of the colon: Epidemiology, etiology, diagnosis,

and treatment.

AUTHOR: Diggs, C.H. Baltimore Cancer Res. Cent., Univ. Maryland Sch. Med., CORPORATE SOURCE:

Baltimore, Md. 21201, United States.

American Journal of the Medical Sciences, (1979) SOURCE:

Vol. 277, No. 1, pp. 4-16.

ISSN: 0002-9629 CODEN: AJMSA9 COUNTRY: United States

DOCUMENT TYPE: Journal

FILE SEGMENT: 006 Internal Medicine

005 General Pathology and Pathological Anatomy

048 Gastroenterology

009 Surgery

037 Drug Literature Index

017 Public Health, Social Medicine and Epidemiology

016 020 Gerontology and Geriatrics

LANGUAGE: Enalish

AB A short survey of epidemiology, etiology, diagnosis and treatment of carcinoma of the colon is given. Literature review.

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ACCESSION NUMBER: 0012467214 EMBASE

COPYRIGHT: MEDLINE® is the source for the citation and abstract of

this record.

TITLE: Disulfiram induces apoptosis in human melanoma

cells: a redox-related process..

AUTHOR: Cen, Dazhi (correspondence); Gonzalez, Rachel I; Buckmeier,

Julie A; Kahlon, Ravi S; Tohidian, Nilou B; Mevskens Jr.,

Frank L

CORPORATE SOURCE: Department of Medicine, Chao Family Comprehensive Cancer Center, College of Medicine, University of California,

Irvine, 101 City Drive South, Building 23, Suite 403,

Orange, CA 92868, USA..

SOURCE: Molecular cancer therapeutics, (Jan 2002) Vol. 1,

No. 3, pp. 197-204.

ISSN: 1535-7163

COUNTRY: United States DOCUMENT TYPE: Journal; Article

FILE SEGMENT: MEDLINE LANGUAGE: English

ENTRY DATE: Entered STN: Mar 2010

Last Updated on STN: Mar 2010

Melanoma is highly resistant to conventional chemotherapy. We have demonstrated that redox regulation in melanoma cells is aberrant, and redox-modulating agents can induce cell apoptosis. We have currently explored the effect of disulfiram (DSF), a member of the dithiocarbamate family, on apoptosis of melanoma cells in vitro. Human metastatic melanoma cells c81-46A, c81-61, and c83-2C were treated with DSF and apoptosis measured. DSF, at a dose of 25-50 ng/ml, consistently caused a 4-6-fold increase in apoptosis. The same dose of DSF did not significantly affect apoptosis in melanocytes. Coincubation of N-acetyl-cysteine reversed the DSF-induced apoptosis. Buthionine sulfoximine (BSO), an inhibitor of gamma-glutamyl-cysteine synthetase, as a single agent caused a approximately 2-fold increase in apoptosis when incubated with melanoma cells for 4 days. BSO slightly enhanced the level of apoptosis induced by DSF (4-10% higher than DSF alone). Intracellular glutathione was remarkably depleted with BSO treatment. DSF did not cause glutathione depletion; however, the ratio of reduced and oxidized glutathione was significantly decreased (14% of control), and N-acetyl-cysteine partially restored the ratio to 30% of control. There was a transient (2-fold) elevation of intracellular superoxide level after 24 h of DSF treatment (before the overt apoptosis). The intracellular H202 level progressively decreased with time. DSF decreased the mitochondrial membrane polarization in a time-dependent manner, and there was a significant inverse correlation between apoptosis and mitochondrial membrane polarization. We propose that DSF-induced apoptosis is redox related but involves a different mechanism from BSO-induced apoptosis in tumor cells. Our findings have

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ACCESSION NUMBER: 0011920175 EMBASE

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this record.

melanoma.

SOURCE:

The impact of autologous stem cell transplantation on the TITLE: prognosis of mantle cell lymphoma: a joint analysis of two

provided new data for additional understanding of drug-induced apoptosis in melanoma cells and suggests an alternative therapeutic approach to

prospective studies with 46 patients...

Dreger, P. (correspondence); Martin, S.; Kuse, R.; Sonnen, AUTHOR: R.; Glass, B.; Kroger, N.; Parwaresch, R.; Kneba, M.;

Schmitz, N.; Haas, R.

CORPORATE SOURCE: Second Department of Medicine, University of Kiel, Germany.

> The hematology journal : the official journal of the European Haematology Association / EHA, (2000)

Vol. 1, No. 2, pp. 87-94.

ISSN: 1466-4860

COUNTRY: United Kingdom DOCUMENT TYPE: Journal: Article

FILE SEGMENT: MEDLINE LANGUAGE: English

ENTRY DATE: Entered STN: Mar 2010

Last Updated on STN: Mar 2010

AR INTRODUCTION: The purpose of this analysis was to investigate if early sequential high-dose therapy with autologous stem cell transplantation (ASCT) can improve the poor prognosis of patients with disseminated mantle cell lymphoma (MCL). PATIENTS AND METHODS: A joint analysis of two

parallel single center studies was performed. Both were characterized by a sequential high-dose therapy consisting of an intensive chemotherapy ('HAM' or 'Dexa-BEAM') for mobilization of peripheral blood stem cells and induction of minimal disease followed by a total body irradiation-containing myeloablative regimen and ASCT. Forty-six patients

with reference panel-confirmed stage III/IV MCL were included.

Thirty-four patients were accrued to the protocol immediately after diagnosis ('upfront ASCT' group). These 34 patients received a standard first-line regimen prior to mobilization. The remaining 12 patients were put on the protocol later during the course of their disease ('delayed ASCT' group). RESULTS: All patients were in remission after mobilization chemotherapy and proceeded to ASCT; there were no exclusions due to poor response, poor mobilization, or patient refusal. With a follow-up of 24 (2-73) months post transplant, the event-free and overall

survival probabilities at 2 years were 77 and 100% for the upfront ASCT group compared to 30% (P=0.0007) and 54% (P=0.0016) for the delayed ASCT group. Event-free and overall survival tended to be longer in the upfront ASCT group than in the delayed ASCT group also if calculated from initial diagnosis (76 and 93% vs 42 and 63%, respectively, at 4 years after diagnosis; median follow-up 35 months), although this was not statistically significant. Besides timing of ASCT, only spleen size was identified as an independent predictor of survival by univariate and

multivariate analysis. CONCLUSION: ASCT is not curative but may improve the prognosis of patients with MCL if performed as part of an intensive first-line treatment strategy. In contrast, the benefits of this approach for salvaging individuals with relapsed disease appear to be limited.

L38 ANSWER 17 OF 22 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on

ACCESSION NUMBER: DOCUMENT NUMBER:

2003:475749 BIOSIS PREV200300475749

TITLE:

Enhanced antimelanoma activity after exposure to

AUTHOR(S):

BSO in combination with disulfiram. Torres, Carina [Reprint Author]; Fruehauf, John P. [Reprint Author]; Huynh, Lan [Reprint Author]; Parker, Ricardo

[Reprint Author]

CORPORATE SOURCE:

SOURCE:

Oncotech, Inc., Tustin, CA, USA Proceedings of the American Association for Cancer Research Annual Meeting, (July 2003) Vol. 44, pp. 923-924.

print.

Meeting Info.: 94th Annual Meeting of the American

Association for Cancer Research, Washington, DC, USA, July

11-14, 2003. ISSN: 0197-016X.

DOCUMENT TYPE: Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

LANGUAGE: English ENTRY DATE:

Entered STN: 15 Oct 2003

Last Updated on STN: 15 Oct 2003

L38 ANSWER 18 OF 22 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN

2003:337231 BIOSIS ACCESSION NUMBER:

DOCUMENT NUMBER: PREV200300337231

TITLE: Value of Autologous Stem Cell Transplantation in First Line

Therapy of Primary CNS Lymphoma.

AUTHOR(S): Colombat, Philippe [Reprint Author]; Mevel, A. Le; Delwail, V.; Foussard, Ch; Brion, A.; Berthou, C.; Bay, J. O.; Quesnel, B.; Quittet, Ph; Himberlin, Ch; Delepine, R.;

Desablens, B.

CORPORATE SOURCE: Hopital Bretonneau, Tours, France

SOURCE: Blood, (November 16 2002) Vol. 100, No. 11, pp. Abstract No. 2533. print.

Meeting Info.: 44th Annual Meeting of the American Society of Hematology, Philadelphia, PA, USA, December 06-10, 2002. American Society of Hematology.

CODEN: BLOOAW, ISSN: 0006-4971.

DOCUMENT TYPE: Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

LANGUAGE: English

ENTRY DATE: Entered STN: 23 Jul 2003

Last Updated on STN: 23 Jul 2003

With conventional therapies, ie chemotherapy + radiation therapies, the prognosis of primary CNS lymphoma remain poor. High dose therapy (HD) with autologous stem cell transplantation (ASCT) has given encouraging results as salvage treatment. So, we conducted a phase II study between july 99 and november 2001 evaluating the efficacy of HDT in the first-line treatment of primary CNS lymphoma in patients ltoreq60 years. Patients received initially 2 courses of MVBP (Methotrexate 3 g/m2 on days (D) 1 and 5), VP16 100 mg/m2 on D2, BCNU 100 mg/m2 on D 3, methylprednisolone 60 mg/m2/day on D 1-5) + intrathecal prophylaxis; in patients in complete or partial remission, peripheral blood stem cells were collected after ifosfamide (1.5 g/m2 on D 1-3) and cytarabine (2 g/m2/day on D 1-2; conditioning regimen was BEAM (BCNU 300 mg/m2 on D1), VP16 (400 mg/m2/day on D 2-5), cytarabine (200 mg/m2 on D 2-5) and melphalan (140 mg/m2 on D6; after transplantation, patients were irradiated (30 Ggamma in whole brain). Twenty five patients were included in the study. The median age was 51 years (range: 21-60); all had diffuse large cell lymphoma; there were 9 males and 16 females; ECOG status was 0 in 3 patients (pts), 1 in 10 pts, 2 in 4 pts, 3 in 6 pts and 4 in 2 pts. Twelve patients had one localization and 13 had more than one. Serum LDH level was increased in 6 pts. HDT with ASCT was performed in 16 pts (4 progressions, 3 toxicities and 2 refusals). Out of the 16 pts treated with ASCT, 2 died (1 toxic death and one progression). The overall survival (os) for pts who received ASCT was 82 % at the median follow-up of 18 months and 66 % for the 25 pts. If these first results appear encouraging, a longer follow-up is needed.

L38 ANSWER 19 OF 22 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on SIN

ACCESSION NUMBER: DOCUMENT NUMBER:

AUTHOR(S):

SOURCE:

2002:306437 BIOSIS PREV200200306437

TITLE: Disulfiram induces apoptosis in human melanoma

cells: A redox-related process.

Cen, Dazhi; Gonzalez, Rachel I.; Buckmeier, Julie A.;

Kahlon, Ravi S.; Tohidian, Nilou B.; Meyskens, Frank L., Jr. [Reprint author]

CORPORATE SOURCE:

Chao Family Comprehensive Cancer Center, College of Medicine, University of California, Irvine, 101 The City

Drive South, Building 23, Suite 403, Orange, CA, 92868, USA FLMevske@uci.edu

Molecular Cancer Therapeutics, (January, 2002)

Vol. 1, No. 3, pp. 197-204. print. ISSN: 1535-7163.

DOCUMENT TYPE: Article

LANGUAGE: English Entered STN: 22 May 2002 ENTRY DATE:

Last Updated on STN: 22 May 2002

Melanoma is highly resistant to conventional chemotherapy. We have demonstrated that redox regulation in melanoma cells is aberrant, and redox-modulating agents can induce cell apoptosis. We have currently explored the effect of disulfiram (DSF), a member of the

dithiocarbamate family, on apoptosis of melanoma cells in vitro. Human metastatic melanoma cells c81-46A, c81-61, and c83-2C were treated with

DSF and apoptosis measured. DSF, at a dose of 25-50 ng/ml, consistently caused a 4-6-fold increase in apoptosis. The same dose of DSF did not significantly affect apoptosis in melanocytes. Coincubation of N-acetyl-cysteine reversed the DSF-induced apoptosis. Buthionine sulfoximine (BSO), an inhibitor of gamma-glutamyl-cysteine synthetase, as a single agent caused a apprx2-fold increase in apoptosis when incubated with melanoma cells for 4 days. BSO slightly enhanced the level of apoptosis induced by DSF (4-10% higher than DSF alone). Intracellular glutathione was remarkably depleted with BSO treatment. DSF did not cause glutathione depletion; however, the ratio of reduced and oxidized glutathione was significantly decreased (14% of control), and N-acetyl-cysteine partially restored the ratio to 30% of control. There was a transient (2-fold) elevation of intracellular superoxide level after 24 h of DSF treatment (before the overt apoptosis). The intracellular H2O2 level progressively decreased with time. DSF decreased the mitochondrial membrane polarization in a time-dependent manner, and there was a significant inverse correlation between apoptosis and mitochondrial membrane polarization. We propose that DSF-induced apoptosis is redox related but involves a different mechanism from BSO-induced apoptosis in tumor cells. Our findings have provided new data for additional understanding of drug-induced apoptosis in melanoma cells and suggests an alternative therapeutic approach to melanoma.

L38 ANSWER 20 OF 22 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on

ACCESSION NUMBER: 1997:120203 BIOSIS

DOCUMENT NUMBER: PREV199799426706

TITLE: Intensified and high-dose chemotherapy with granulocyte

colony-stimulating factor and autologous stem-cell transplantation support as first-line therapy in high-risk

diffuse large-cell lymphoma.

AUTHOR(S): Vitolo, Umberto [Reprint author]; Cortellazzo, Segio;

Liberati, Anna Maria; Freilone, Roberto; Falda, Michele; Bertini, Marilena; Botto, Barbara; Cinieri, Saverio; Levis, Alessandro; Locatelli, Franco; Lovisone, Elisabetta; Marmont, Filippo; Pizzuti, Michele; Rossi, Andrea; Viero, Piera; Barbui, Tiziano; Griqanai, Fausto; Resegotti, Luiqi

CORPORATE SOURCE: Div. Ematol., Azienda Ospedaliera S. Giovanni Battista sede

Molinette, Corso Bramante 90, 10126 Torino, Italy SOURCE: Journal of Clinical Oncology, (1997) Vol. 15, No.

2, pp. 491-498.

CODEN: JCONDN. ISSN: 0732-183X.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 25 Mar 1997

Last Updated on STN: 25 Mar 1997

AB Purpose: In our previous study with MACOPB, we identified a high-risk group of patients with a poor 3-year survival rate of 29%. These patients were defined as having at diagnosis advanced-stage disease with high tumor burden (TB) and elevated lactate dehydrogenase (LDH) level or bone marrow (BM) involvement. A novel therapeutic scheme was investigated to improve the outcome of these patients. Patients and Methods: Fifty patients with high-risk diffuse large-cell lymphoma (DLCL) were enrolled. The therapeutic scheme includes three phases: induction with 8 weeks of MACOPB; intensification with a 3-day course of mitoxantrone 8 mg/m-2 plus high-dose cytarabine (HDARA-C) 2 g/m-2 every 12 hours plus dexamethasone 4 mg/m-2 every 12 hours (MAD protocol) and granulocyte colony-stimulating factor (G-CSF) 5 mu-g/kg on days 4 to 17 to harvest peripheral-blood progenitor cells (PBPC); consolidation with carmustine (BCNU), etoposide, ARAC, and melphalan (BEAM) regime; plus autologous stem-cell transplantation (ASCT) with PBPC,

marrow, or both. Results: Thirty-six patients (72%) achieved a complete response (CR), 11 (22%) showed no response (NR), and three (6%) died of toxicity. Among the 22 PRs or NRs after the induction phase, 56% of patients achieved a CR with subsequent intensified therapy. With a median follow-up duration of 32 months, the overall survival and failure-free survival rates were 56% and 50%, respectively. The disease-free survival rate is 69% at 32 months. Leukapheresis after MAD and G-CSF yielded a median of 32 times 10-6/kg CD34+ cells and 80 times 10-4/kg granulocyte-macrophage colony-forming units (CFUGM). Thirty-nine patients were autografted and 11 did not undergo ASCT: six because of disease progression, four due to toxicity, and one because of patient refusal. The median times to achieve engraftment were 11 days (range, 7 to 19) to a neutrophil count greater than 0.5 times 10-9/L and 12 days (range, 8 to 60) to a platelet count greater than 50 times 10-9/L. Conclusion: This sequential scheme with intensified and high-dose chemotherapy with ASCT is feasible with moderate toxicity and may improve the outcome in high-risk DLCL.

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ACCESSION NUMBER: 1989:474876 BIOSIS

DOCUMENT NUMBER: PREV198988110636; BA88:110636

MODIFICATION OF CYCLOPHOSPHAMIDE-INDUCED UROTOXICITY BY TITLE: BUTHIONINE SULFOXIMINE AND DISULFIRAM IN MICE.

AUTHOR(S): ISHIKAWA M [Reprint author]; TAKAYANAGI Y; SASAKI K-I DEP PHARMACOL TOXICOL, CANCER RES INST, TOHOKU COLL PHARM, CORPORATE SOURCE:

4-4-1 KOMATSUSHIMA, SENDAI 980, JPN

SOURCE: Research Communications in Chemical Pathology and Pharmacology, (1989) Vol. 65, No. 2, pp. 265-268.

CODEN: RCOCB8, ISSN: 0034-5164.

DOCUMENT TYPE: Article FILE SEGMENT:

LANGUAGE: ENGLISH ENTRY DATE: Entered STN: 17 Oct 1989

Last Updated on STN: 23 Oct 1989 AR The effect of buthionine sulfoximine (BSO) and

disulfiram (DSF) on the urotoxicity induced by cyclosphosphamide (CPA) was examined in mice. Pretreatment of mice with BSO (500 mg/kg, i.p.) 5 hr prior to CPA resulted in enhanced urotoxicity of CPA. In contrast, simultaneous administration of DSF (200 mg/kg, p.o.) decreased the urotoxicity of CPA.

L38 ANSWER 22 OF 22 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on SIN

ACCESSION NUMBER: 1985:427341 BIOSIS

DOCUMENT NUMBER: PREV198580097333; BA80:97333

TITLE: HYDROGEN PEROXIDE FROM CELLULAR METABOLISM OF CYSTINE A

REQUIREMENT FOR LYSIS OF MURINE TUMOR CELLS BY

VERNOLEPIN A GLUTATHIONE-DEPLETING ANTINEOPLASTIC.

ARRICK B A [Reprint author]; GRIFFO W; COHN Z; NATHAN C AUTHOR(S):

CORPORATE SOURCE: ROCKEFELLER UNIV, NEW YORK 10021, USA

Journal of Clinical Investigation, (1985) Vol.

76, No. 2, pp. 567-574. CODEN: JCINAO. ISSN: 0021-9738.

DOCUMENT TYPE: Article

FILE SEGMENT: BA LANGUAGE: ENGLISH

The sesquiterpene lactone antineoplastic vernolepin acutely depletes murine tumor cell glutathione (GSH), and lyses the cells by an unknown mechanism that is enhanced synergistically by inhibition of GSH synthesis with buthionine sulfoximine. Lysis of P815 mastocytoma cells by vernolepin, with or without BSO, required cystine in the culture

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medium. Addition of catalase markedly suppressed vernolepin-mediated
cytolysis in cystine-containing media, suggesting the involvement of H2O2
in the cytolytic action of vernolepin. Consistent with this, inhibition
of tumor cell glutathione disulfide reductase with 1,
3-bis(2-chloroethv1)-1-
nitrosourea or inhibition of endogenous catalase with
aminotriazole synergistically augmented cytolysis by vernolepin. H2O2 was
released by suspensions of P815 cells in cystine-containing buffer (63
pmol/106 cells · h). Ommission of cystine reduced the rate of H2O2
accumulation 10-fold. No H2O2 was detected without cells. Cytolysis by
vernolepin could be restored in cystine-deficient medium by several other
disulfides, themselves non-cytolytic, such as disulfiram and
oxidized captopril, as well as by cysteine. Withholding 2 other essential
amino acids (leucine or tryptophan) or adding cycloheximide did not
interfere with cytolysis by vernolepin. Cellular uptake of disulfides of
physiologic and pharmacologic interest may be followed by their
intracellular reduction and autooxidation with generation of H2O2. This
previously unrecognized source of intracellular oxidant stress may be an
important component of injury to GSH-depleted cells.
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=> d his (FILE 'HOME' ENTERED AT 11:19:38 ON 10 MAY 2010) FILE 'CAPLUS' ENTERED AT 11:19:51 ON 10 MAY 2010 2300 S DISULFIRAM S DISULFIRAM/CN FILE 'REGISTRY' ENTERED AT 11:20:06 ON 10 MAY 2010 L2 1 S DISULFIRAM/CN FILE 'CAPLUS' ENTERED AT 11:20:06 ON 10 MAY 2010 1.3 3380 S L2 S DISULFRAM/CN FILE 'REGISTRY' ENTERED AT 11:20:23 ON 10 MAY 2010 L4 0 S DISULFRAM/CN FILE 'CAPLUS' ENTERED AT 11:20:23 ON 10 MAY 2010 1.5 0 S L4 L6 6756 S CURCUMIN FILE 'REGISTRY' ENTERED AT 11:20:42 ON 10 MAY 2010 1 S DISULFIRAM/CN L8 1 S CURCUMIN/CN L9 1 S BSO/CN L10 1 S BCNU/CN FILE 'CAPLUS' ENTERED AT 11:21:30 ON 10 MAY 2010 L11 3380 S L7 5428 S L8 L12 L13 1947 S L9 L14 3851 S L10 L15 1004074 S CANCER OR TUMOR OR NEOPLASM L16 224 S L11 AND L15 1654 S L12 AND L15 T-18 3 S L13 AND L15 L19 2789 S L14 AND L15 L20 34 S (L16 OR L17) AND (L18 OR L19) L21 34 DUP REM L20 (0 DUPLICATES REMOVED)

L22

34 S L21

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FILE 'REGISTRY' ENTERED AT 11:24:40 ON 10 MAY 2010

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FILE 'REGISTRY' ENTERED AT 11:25:20 ON 10 MAY 2010

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SET SMARTSELECT OFF

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FILE 'REGISTRY' ENTERED AT 11:25:33 ON 10 MAY 2010 SET SMARTSELECT ON

L28 SEL L9 1- CHEM: 13 TERMS

SET SMARTSELECT OFF

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FILE 'REGISTRY' ENTERED AT 11:25:41 ON 10 MAY 2010

SET SMARTSELECT ON L30 SEL L10 1- CHEM : 21 TERMS

SET SMARTSELECT OFF

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L32 6349459 S CANCER OR TUMOR OR NEOPLASM

L33 5417 S L25 AND L32

L34 6435 S L27 AND L32

L35 2099 S L29 AND L32

L36 18174 S L31 AND L32

> 66 S (L33 OR L34) AND (L35 OR L36) 22 S L37 AND PD<20030718

L37 L38 =>

---Logging off of STN---

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